



# Operating instructions

# TV

- Individual 52 Compose Full-HD+ 100
- Individual 46 Compose Full-HD+ 100
- Individual 40 Compose Full-HD+ 100

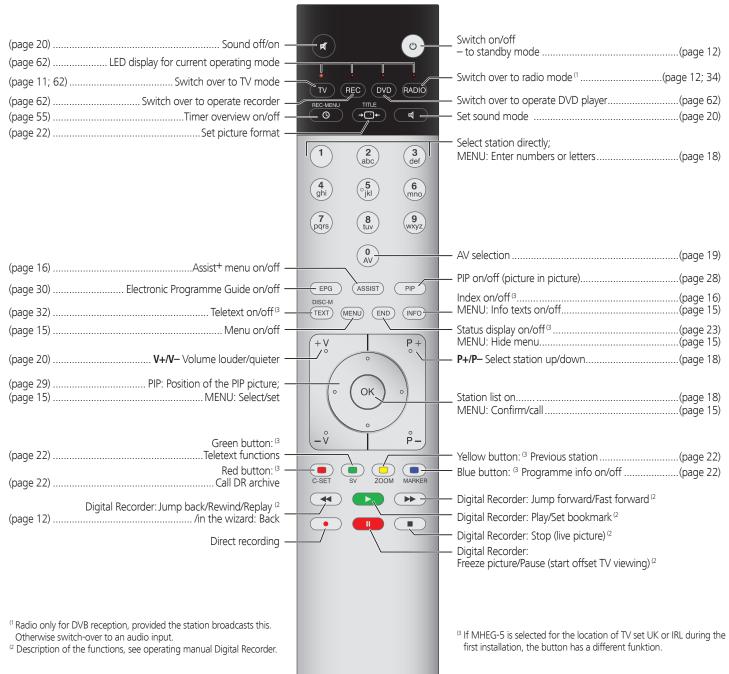
# LOEWE.

# **Contents**

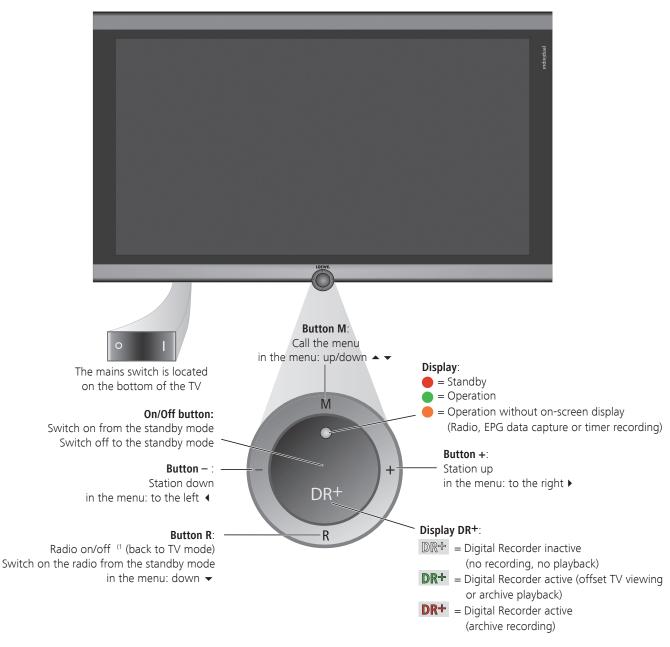
Remote control – TV functions	
Control unit front side of the device	
Connections rear side of the device – Compose 40	
Connections rear side of the device – Compose 46 / Compose 52	
Welcome	
Scope of delivery	7
About this operating manual	
TV set equipment	
Trademarks	
Acknowledgements	/
Operating convenience with wizards	٥
The wizards in overview	
For your safety	
Environmental protection	
Initial installation	
Installing the TV set	11
Preparing the remote control unit	
Connecting the TV set Turning the set on/off	
First installation wizard	۱۷
Positioning/aligning DVB-T antenna	1/1
Operating convenience	
General information on menu operation	15
The info display	
The index in the TV set	
The Assist+ menu	
TV menu — Overview diagram	
Radio menu – Overview diagram	
Daily operation	
Select station	
Select video source	
Adjusting the sound	20
Adjusting the picture	21
Operation without remote control	21
Button functions	
Managing stations	
TV stations	24
Put together / change favourites lists	
Picture in Picture	
Picture in Picture (PIP)	28
Configure Picture in Picture (PIP) mode	
Electronic Programme Guide	. 30
Electronic Programme Guide — EPG	30
Configuring EPG	31

Teletext	32
Teletext	32
Teletext menu	33
Digital teletext (MHEG-5)	33
Radio	34
Radio mode	34
EPG — Electronic Programme Guide (radio)	34
DVB	35
Conditional Access module (CA module)	
Software update	
Other settings	38
Parental lock	
Timer functions	38
On-screen displays	39
Time and date	39
Operating additional equipment	40
Connection wizard	40
Devices to the connections AV1/AV2/AVS	
Devices to the HDMI (DVI) connections	
Devices to the PC IN connection	45
Devices to the Component IN connection	
Sound components wizard	
TV speakers	47
Speaker system Loewe Individual Sound on the Dolby Digital Decoder of the TV set	48
Connecting other speaker systems or active speakers to the Dolby Digital Decoder	40
Adjusting the speaker system	45
Connecting audio amplifiers	
Assignment of the digital audio input	
Audio connection in HDMI (DVI) devices	53
RS-232C interface	53
The direct way to record	
Timer recording with external devices	
PhotoViewer	56
MusicBox	58
Operating Loewe equipment	
Rotating the TV set	
Troubleshooting	65
Technical data	67
General data	67
Electrical data	67
Connections (max. equipment)	67
Accessories	68
Accessories	
Setup possibilities	
Glossary	70
Index	
e '	73

# Remote control – TV functions

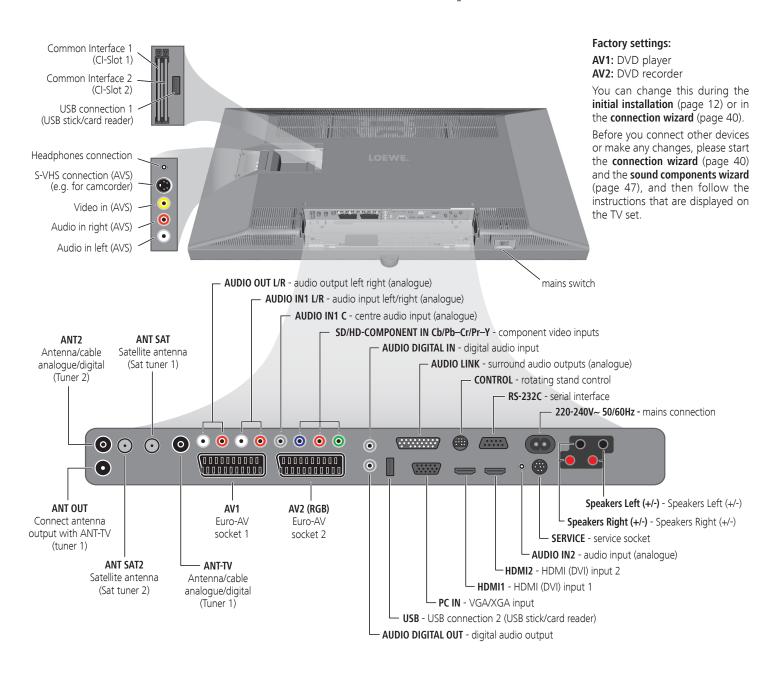


# Control unit front side of the device

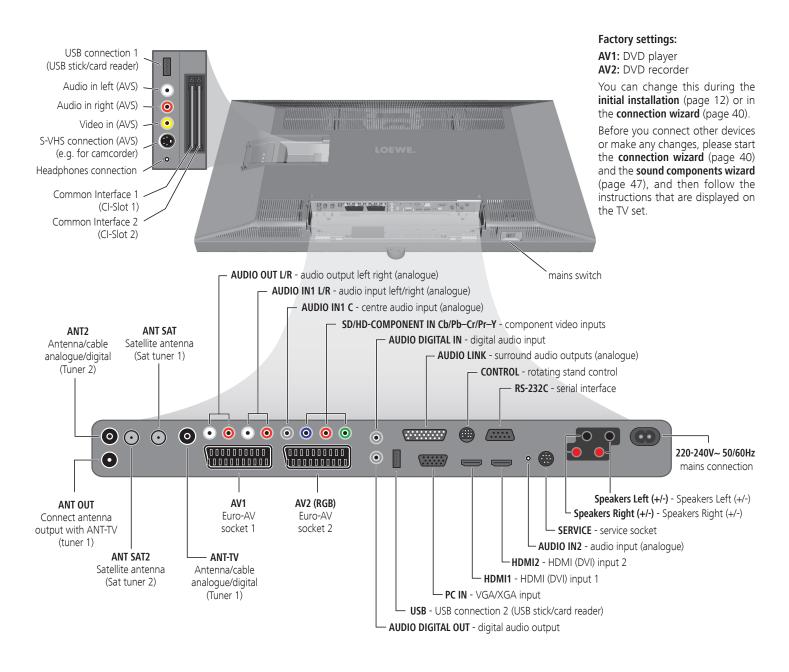


<sup>(1)</sup> Radio only for DVB reception, provided the station broadcasts this. Otherwise switch over to an audio input.

# **Connections rear side of the device – Compose 40**



# **Connections rear side of the device – Compose 46 / Compose 52**



# Welcome

# Thank you!

At Loewe, we combine the highest standards of technology, design and user friendliness. This applies equally for TV, video and accessories.





Your new TV set is equipped for the TV standard "HDTV" (High Definition Television). With its high definition screen, the 100 Hz image refresh frequency and the future-oriented digital interfaces HDMI (High Definition Multimedia Interface) it offers possibilities for watching HDTV broadcasts in an excellent picture quality.

HDTV is a worldwide, digital standard in the 16:9 format which revolutionises normal TV viewing. It is broadcast with an up to five times greater resolution than conventional signals and therefore creates an unexpectedly 3D image.

The TV set is equipped for digital reception. You can use the already frequently broadcast "everywhere television" (DVB-T) as well as digital cable (DVB-C) and digital satellite reception (DVB-S).

The Loewe Digital<sup>+</sup> HD 100 platform even allows dual reception of DVB-T, DVB-C and DVB-S (if MHEG-5 is selected for location of TV set UK or IRL, DVB-C and DVB-S reception is not possible, see also on page 13).

The TV set is equipped with a Dolby Digital Decoder. You can connect a speaker system (e.g. Loewe Individual Sound) or active speakers and enjoy movie theater sound.

You can connect a card reader or a USB stick with digital photos and/or MP3 music files to the USB connection of your TV set and view your photos or play music via the integrated PhotoViewer/MusicBox software. All the functions can be operated with the Loewe remote control.

We have designed the TV set in such a manner that you can easily operate it with the help of wizards and menus. Information about the menu settings is displayed automatically. You will quickly comprehend the context.

# Scope of delivery

- LCD TV set
- Mains cable
- Antenna cable
- Wall mount WM54 (incl. installation instructions)
- Remote control Assist with two batteries
- Operating instructions of the Digital Recorder
- This operating manual

No speakers are included in the scope of delivery for the "Individual Compose" TV set. You can custom configure the speaker equipment with your TV set and adapt it to your requirements. Ask your dealer in this regard.

# About this operating manual

For many questions concerning the technology you will find an answer in the index of your TV set. If your question concerns TV set operation, you can access a function directly from the index of the TV set. Owing to this possibility, this operating manual only explains the most important operating steps.

The index/glossary from page 70 onwards gives explanations of certain terms used in the TV set and the operating manual.

Paragraphs which begin with the symbol indicate important instructions, tips or conditions for the following settings.

Terms which you will find in the menus or printed on the remote control or TV set are written in **bold** type.

The necessary control elements are shown in the descriptions to the left of the text containing the instructions for action.

Depending on the connected accessory equipment the menus in the TV set can differ from those described here.

All the station names, programme contents, the illustrated photos, titles, albums and album covers in this operating manual are examples.

# TV set equipment

See the rating plate on the rear of the set for the precise product designation. The precise features are listed in the Integrated features item in the index of the TV set (see page 16).

## **Trademarks**

Manufactured under licence from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2007 DTS, Inc. All Rights Reserved.







The screen font "LoeweL2700" is based on the "Taymjong Bah Arev (tavmjong.free.fr)" font, which in turn is based on "Bitstream Vera". Bitstream Vera is a trademark of Bitstream Inc.

This set contains a software which is based partly on the work of the Independent JPEG Group.

# **Acknowledgements**

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# Welcome

# Operating convenience with wizards

This TV set offers user prompting with wizards that take you through the settings step-by-step.

You can return to the previous step or exit the wizard at any time.

# The wizards in overview

#### Initial installation

The initial installation wizard helps you with the initial installation and connection of any existing equipment (see page 12).

#### Setting up the antenna

You enter in the antenna wizard which antenna signals are available to you. The antenna wizard is called in initial installation (see page 12). You can also call the antenna wizard in the TV menu under Connections → Antenna DVB → Antenna DVB-S or Antenna DVB-T.

#### Search wizard

If you want to search for new stations after the initial installation, or if you have set up your antenna for the first time, then you can handle this task with the help of the search wizard (see page 24). You will find the search wizard in the **TV menu** under **Settings** → **Stations** → **Search wizard**.

### Connecting external devices

The connection wizard ensures that all devices are correctly registered and connected. It is started automatically at the end of the initial installation wizard but can also be called separately (see page 40). You will find the connection wizard in the **TV menu** under **Connections** → **New devices/modifications**.

### Connecting sound components

The sound component wizard ensures that the components which reproduce the TV sound are correctly registered, connected and set. It is started automatically at the end of the initial installation wizard but can also be called separately (see page 47). You will find the sound components wizard in the TV menu under Connections → Sound components.

#### Assist+

You can select the most important operating modes directly with the Assist<sup>+</sup> menu (**ASSIST button**). Selectable modes are: TV, Radio digital, Teletext, DR archive, PhotoViewer, MusicBox, CA module and Index (see page 16).

## **Programming and managing recordings**

The recording wizard helps you to programme a video recording with a video recorder, DVD recorder, or the integrated Digital Recorder (see page 54).

#### Station list

The station list is a list of all stored stations. You can also use the station list for switching stations conveniently (see page 18).

### Software update wizard

The latest software for your TV set can be loaded via DVB stations or via USB stick (see page 36).

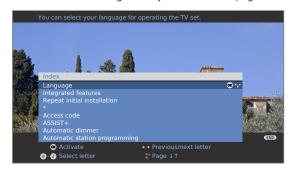
# Info display and TV index

#### An information display for each menu item

The info display automatically shows content-based info texts in the upper part of the screen for each menu item. It forms a convenient operating system with the index (see page 15).

#### An index in the TV set

The index gives you an overview of the functional scope of your TV set. You can also start wizards and menu settings directly from here (see page 16).



# For your safety

For your own safety and to prevent unnecessary damage to your device, read and comply with the following safety instructions:

#### Proper use and environmental conditions

This TV set is designed exclusively for reception and reproduction of video and audio signals and is designed for living rooms or office facilities, and should not be operated in rooms with high **humidity**, such as a bathroom, or sauna, or where there is a high **concentration of dust** (e.g. workshops). The manufacturer's warranty is only valid for use in the specified permissible environment.

If the set is used outdoors ensure that it is protected against **moisture** (rain, splashing water, or dew). High humidity and dust concentrations cause leak currents in the device, which can cause a shock hazard if the device is touched, or a fire.

If you have brought the set into a warm environment from the **cold**, then wait for about 1 hour before switching it on to avoid formation of **condensation**.

Do not place any **objects** filled with **liquid** or burning candles on the device. Protect the set against dripping and splashing water.

Never place the TV set in a position where it is exposed to **vibrations**. This can lead to material overload.



#### **Transporting**

Only transport the device in **vertical position**. Grasp the device on the upper and lower edges of the housing. Never set the TV down on the protruding control unit on the bottom of the TV set. This could damage the control unit.

If the set has to be put down during packing/unpacking, place the TV set with the entire front surface lying flat on a soft underlay such as a blanket or the felt from the packing material.

The LCD screen is made of glass or plastic and can break if not handled properly.

If the LCD screen is damaged and **liquid crystal** escapes, wear rubber gloves when moving the device. In the case of **skin contact** immediately wash thoroughly with water.

### **Power supply**

The **wrong voltage** can damage the set. This equipment must only be connected to a mains power supply which has the same voltage and frequency as that specified on the rating plate; use the mains cable provided. The **mains plug** of the TV set must be easily accessible so that the device can be disconnected from the mains at any time. When you unplug the mains plug, do not pull on the **cable** rather pull on the plug housing. The cable in the mains plug could be damaged and cause a **short circuit** the next time it is plugged in.

Lay out the **mains cable** in such a manner that it cannot be damaged. The mains cable must not be kinked or laid over sharp edges, stepped on or exposed to **chemicals**; The latter also applies for the entire equipment. A mains cable with damaged insulation can cause **electrical shock** and is a **fire hazard**.

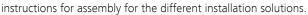
## Air circulation and high temperatures

The **vent slots** on the **rear panel** of the set must always be kept free. Please do not place newspapers or cloths on/over the TV.

Ensure that there is at least 10 cm free space on the sides and above the set for air circulation, if the set is placed in a **cabinet** or on a **shelf**.

Like any electronic device, your TV set requires air for cooling. Obstruction of the air circulation can cause fires.

The set is suitable for different installation solutions. See the





Stand the TV set with the table or floor stand only on a level, **sturdy**, **horizontal base**. Particularly ensure that the set does not protrude to the front when placed in or on pieces of furniture.

Set up the device where it is not exposed to direct **sunlight** and where it is not exposed to additional warming through **heating elements**.

Prevent **metal items**, needles, paper clips, liquids, wax, or similar items, from getting into the interior of the device through the **vent slots** in the rear panel. Such objects can cause **short circuits** in the set, which could possibly cause a fire.

If something should get into the **interior of the set** then immediately unplug the mains plug of the device and contact **customer service** for more information.

# For your safety

#### Repairs and accessories

Never remove the back of the TV set yourself. Only have your TV device repaired or serviced by **authorised television technicians**.

Only use **original accessories** such as Loewe stands if possible (see Accessories on pages 68 and 69).

#### Supervision

Do not allow **children** to use the TV set without supervision or to play in the immediate vicinity of the TV set. The set could tip over, be pushed off or pulled down from the stand surface and injure someone.

Do **not** allow the switched-on TV set to run **unattended**.

#### Volume

Loud music can lead to ear damage. Avoid extreme volume especially over long periods and when using headphones.

#### Cleaning

Clean the TV set, the screen, and the remote control unit with a soft, moist, and clean cloth, only, **without** any **aggressive** or **scouring cleaning agents**.

#### Thunder storms

Pull out the **mains plug** and all connected **antenna cables** from the TV set in a thunderstorm. Overvoltage caused by **lightning** can damage the set via the antenna system, as well as via the mains. The mains plug and all connected antenna cables should also be pulled out during long periods of **absence**.

#### Note on the LCD screen

The TV set you have purchased with LCD screen satisfies the most rigorous quality requirements and has been inspected relative to **pixel errors**. In spite of the utmost care in manufacturing the display, for technical reasons the possibility that some **pixels** will have defects cannot be 100% excluded. Please understand that these types of effects, as long as they are within the standard of specified limits, cannot be considered as a device defect in terms of the guarantee.

# **Environmental protection**

### **Energy consumption**

Your TV set is equipped with an eco-standby power supply. In the standby mode, the power consumption drops to low power (see Technical data on page 67). If you want to save even more energy then switch the device off with the mains switch. However note that in this case, EPG (Electronic Programme Guide) data will be lost, and it may be that programmed timer recordings **cannot** be executed via the TV device.

If you activate the automatic dimming (see page 21), your TV picture will adapt to the ambient brightness. This reduces the power consumption of the TV set.

#### Packaging and box

You have made a decision to purchase a high-quality technical product with a long service life. For disposal of the packaging, in accordance with national legislation we have paid a fee to a commissioned recycler to pick up the packaging from the dealer. Nevertheless we recommend keeping the original box and **packaging material** on hand so that the device can be transported with optimal protection if necessary.

#### The set



The EU directive 2002/96/EC regulates the proper way to recycle, handle and utilise used electronic devices. **Old electronic devices** consequently must be disposed of separately. Please do **not** dispose of this device in normal **household trash!** 

You may return your used set free of charge at designated recycling centres or at your specialist dealer whenever you purchase a new, comparable set. Additional details about return (also for non EU countries) are available from your local municipal authorities.

#### **Batteries**



The batteries supplied as initial equipment do not contain any pollutants such as cadmium, lead, or mercury. Used batteries should **no longer** be disposed of in the **domestic waste** according to the Battery Ordinance. Dispose of your batteries at no charge in the **collection containers** which are set up for this purpose in retail stores.

# Installing the TV set

First prepare the chosen installation solution for your TV set. See the installation instructions of the wallmount supplied. See Accessories (page 69) for other installation possibilities.

# Preparing the remote control unit

### Inserting or replacing batteries

Press the embossed arrow and push down the battery compartment cover.

Insert two alkaline manganese LR 03 (AAA) batteries; ensure that the + and – poles are correctly positioned!

Slide the cover up from below.



## Adjusting the remote control for operating the TV set



Press the TV button.

See page 62 to learn about operating other Loewe devices.

# Connecting the TV set

### Connecting to the mains

■ Note the position of the mains connection in Individual Compose 40 / 46 / 52.

Remove the cover for the connections.

Connect the TV set to a 220-240V outlet:

First plug the small plug of the mains cable into the mains connection on the rear of the TV, then plug the large plug into a mains power outlet.

### Connecting the antenna

Analogue / DVB-C / DVB-T antenna:

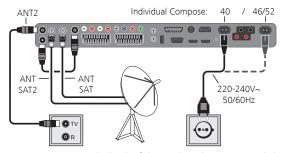
Plug the antenna plug of antenna system, cable system, or room antenna into the **ANT2** socket.

The connecting cable between **ANT-TV** – **ANT OUT** is plugged at the factory.

#### Satellite antenna:

Connect an antenna plug, e.g. from the antenna changeover switch or from the twin-LNC of the satellite system to the sockets **ANT-SAT** resp. **ANT-SAT2**.

When connecting only one SAT antenna cable, connect it to **ANT-SAT**.



Connections on the back of the set (see also page 5 and 6).

Replace the cover over the connections.

#### Connecting speakers

How to configure and connect TV speakers, speaker systems or active speakers is described from page 47.

#### Receiving coded stations

When using a CA module and a Smart-Card to receive coded stations, please observe the handling of the CA module (see page 35).

# Turning the set on/off

#### Switching the TV set to standby mode



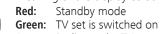
Activate the mains switch on the bottom left of the set. The display in the control panel on the front of the set will be illuminated red, the set is now in standby mode.

### Switching the TV on/off on the control unit

Press the on/off button in the middle for about 2 seconds. to switch the TV set on/off.

Display

Meaning of the display colour:



Orange: Radio mode. TV set receives EPG data or timer

recording active

### Switching the set on with the remote control



Press the on/off button



numeric buttons (0-99)



TV button





OK button - station list is called



ASSIST button - Assist+ menu is called.

### Switching the set off with the remote control



Press the on/off button.

Before switching off the set with the mains switch, we recommend you to switch it to standby mode.

#### Switch on in Radio mode



Press **R** on the TV control unit



Press the **RADIO button** on the remote control (radio mode, see page 34).

# First installation wizard

### First installation after switching on for the first time

This wizard starts automatically after the set is switched on for the first time, however it can also be called later manually in the TV index, see Repeat initial installation on page 16.



The first step with the wizard starts when selecting the language for the user prompts. From this point on follow the instructions on your TV set.

## Brief explanation of button functions:



Press the ring (up, down, left, right) to move the cursor and to select settings.



By pressing the **OK button** a setting is confirmed and you will go to the next step.



With the yellow button you can select or remove the individual items (see the example below).

When an element is selected, it is marked by a checkmark .



Use this button to go back one step.



Exit the wizard with the END button (if available).



An example of multiple selection using the **yellow button**.

#### Explanations of the setting possibilities:

Location Select the country for country-specific pre-settings.

of TV set If UK or IRL is selected for the location of TV set, it is possible to activate MHEG-5 (UK Freeview) for the TV set.

> A dialogue appears, where you can confirm to set the operating software to the selected location.

> If **Yes** is selected and confirmed with **OK**, the TV set turns off and on again automatically. First installation starts again after activating the operation software.

> If MHEG-5 was activated, DVB-C and DVB-S can not be used anymore. Only terrestrial/cable and DVB-T stations are available

Antenna selection

Antenna/cable (analogue): analogue stations via

cable/antenna

DVB-T: digital terrestrial stations DVB-C: digital stations via cable DVB-S (cable 1): digital stations via satellite DVB-S (cable 2): digital stations via satellite

stations

Encrypted You can state whether coded stations are to be searched for in the search/update. Select **yes** then coded stations are also searched for. However, these stations can only be received in connection with a CA module and the appropriate Smart Card. Handling of the CA module is described on page 35.

**DVB-T:** If you are using an active antenna, then select **yes (5V)** Antenna for the antenna power supply.

**DVB-C:** The conventional settings will be derived from the selection Settings of set location. Only change this if you know other symbol rates and modulation types or if you have to specify the network ID for your cable network (information available from your cable network provider). If you want to run the station search independently of the channel grid, select **frequency search** for the search method.

**DVB-S:** Select which satellite(s) you receive from a list. For more Satellite than one satellite, select the type of your changeover system switch or communal satellite system additionally. Ask your dealer in this regard.

Specify here whether the high band of the selected satellite High band is to be searched in addition to the low band

Low Band / High Band

LNC Normally, you do not need to change the values for high frequencies and low band, unless the LNC (LNB) of your satellite system uses a different oscillator frequency (important for the frequency display).

> After you have made these settings, you should receive the picture and sound of the selected satellites (only with Astra1 and HOTBIRD)

Search If you want to run the station search independently of method the channel grid, select **frequency search** for the search method.

Symbol rates The symbol rates are specified by the satellite provider and normally do not need to be changed.

Favoured Select the signal source that provides the stations to be on signal source top of your station list (starting with station slot 1).

**Start search** Start the automatic station search with **OK**.

First TV stations, then radio stations are searched for. The stations found in the automatic search are divided into the appropriate station blocks depending on the previously selected antenna cables (signal sources). Subsequently the stations can only be re-sorted within these blocks. At the beginning of the station list you will find the block with the stations of the preferred signal source. Any mixed sorting of stations from different signal sources is only possible with the favourites list.

For TV sets with MHEG-5 software the stations are tied to "Logical Channel Numbers" - "LCN" and sorted from 1-799. Digital stations without "LCN" are stored from 800 onwards. Analogue stations are stored from 1001

additional

Connecting Then the connection and sound component wizard starts which helps you to log in, set and connect video recorders, decoders, a loudspeaker system or a HiFi/AV amplifier to your TV set. DVD players and DVD recorders are already registered at the factory.

> You can start the connection wizard and the sound components wizard manually later and add new devices. Further information is available from page 40 (Connection wizard) and page 47 (Sound components wizard).

Digital Link If you have registered and connected a recorder in the

Plus connection wizard, the Digital Link Plus transmission begins at the end of the sound components wizard. If a Digital Link Plus capable recorder is connected, the station list of the analogue stations is transmitted to the external recorder.

You can also call Digital Link Plus under TV menu → Connections → Digital Link Plus.

#### Explanations of the DVB-T antenna:

Room With good reception conditions a room antenna can be antenna used for DVB-T (socket ANT2).

Active Under less favourable reception conditions, it is advisable antenna to use an active antenna which has to be set accordingly in the initial installation or in the TV menu → Connections → Antenna DVB → Antenna DVB-T (see DVB-T antenna on page 13).

Directional If the location is outside of the normal transmission antenna range then a directional antenna can be used to improve reception quality.

# Positioning/aligning DVB-T antenna

If you are receiving one or more DVB-T stations with picture and sound interference then you should change the installation location and alignment of the antenna. Ask your dealer to tell you which channels are used to broadcast the DVB-T stations in your region.

> In normal TV mode, without other displays. A DVB-T station is received and selected.



#### Call TV menu



- ◆ Select Settings,
- ◆ Select Stations.
- go to the menu line below.
- ◆ Select Manual adjustment,
- **OK** call manual adjustment.



The signal source is already on DVB-T due to the station preselection.

Position and align the antenna in such a manner that maximum values for **C/N** and **Level** are obtained



Blue button: Start search.

Search for DVB-T stations one after another and compare values for C/N and Level.

Then position/align the antenna to the weakest station so that maximum values for **C/N** and **Level** are obtained.

Thereafter perform an automatic search for all DVB-T stations, see page 24.

#### Explanation of the setting possibilities:

Bandwidth Depending on the selected channel and country the associated bandwidth of 7 or 8 MHz will be set automatically.

# **Operating convenience**

# General information on menu operation

Menus for the individual operating modes (TV, Radio, PIP, EPG, Teletext, PhotoViewer, MusicBox and DR archive) are called with the **MENU button**. Other menus can be opened with other buttons on the remote control. The menus are displayed at the bottom of the screen. At the top you get additional information about the selected menu item (see info display on the right).

■ In normal TV mode, without other displays.



#### Call TV menu.



#### **Example: Selecting and executing functions**



- ◆ Select Picture,
- ◆ Select Brightness,
- go to the menu line below.
- ◆ Set Brightness.
- ▲ Return to the **Brightness** menu line to make other picture settings.
- ◆ Select more ......
- **OK** call **more** ... functions
- ◆ Select Auto format.
- ◆ Select on / off.



Conclude the settings.

#### Inputs with the numeric buttons



Letters have to be entered for specific functions. Like using a mobile phone keypad (1 to 9), press a numeric button until the desired character appears.

The available letters are printed on the individual numeric buttons.

# The info display

The info display shows a content-based info text for each menu item at the top edge of the screen to aid you in making the settings. In conjunction with the index it makes a convenient control system.

A menu is displayed.



The factory setting is that the info display is shown automatically for each menu item. In this case you can temporarily hide the info texts with the **INFO button**.

The automatic info display can be hidden via a menu setting. Then it can be displayed temporarily by pressing the **INFO button**.



An **INFO** icon at the bottom right above the menu bar also tells you that an info text is available.



If a several page info text is available, Page↓↑ is displayed in the info window and you can scroll through the individual info pages with P+ and P-.

## Permanently display or hide the automatic info display

Once you have become familiar with how to operate the TV set, you can switch off the automatic info display.

■ In normal TV mode, without other displays.



Call TV menu.



- ◆ Select Settings,
- ◆ Select Miscellaneous,
- go to the menu line below.
- ◆ Select On-screen displays,
- ◆ Select Automatic info,

# **Operating convenience**

# The index in the TV set

You can start all wizards and many operating functions directly from this point. The complete function scope of the TV set can thus be easily understood.

Alphabetic sorting is preceded by the items Language, Integrated features and Repeat initial installation.

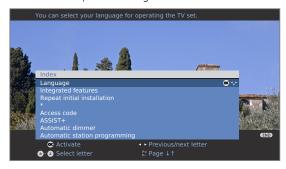
#### Call index

In normal TV mode, without other displays.



#### Call Index.

You will see an info text for the highlighted keyword in the info display. If MHEG-5 is active, call the status display with **INFO** and press **INFO** again for index.





If an OK symbol appears in the marked line, this function can be called directly with **OK**.

#### Selecting a keyword



Enter initial letters with the **numeric buttons** like with a mobile phone keypad (see page 15).

or go with:



- ◆ to the preceding / next letters,
- ▼ ▲ from line to line.



P+/P- scroll backwards or forwards in whole pages.

Example: You want to have the TV set switch off automatically at a specific time:

Select the keyword **Switch off**  $\rightarrow$  **Automatic**, with **OK** you will go to the setting.

## The Assist+ menu

The most important additional functions of the TV set can be called directly with the Assist+ menu.

### Open Assist+



Call Assist+ menu.



riangle Select additional function,

**OK** calls the function



## Description of the individual functions:

TV: See page 18 onwards.

Radio digital: See page 34.

Teletext: See page 32 onwards.

DR archive: See Digital Recorder operating instruc-

tions.

PhotoViewer: See page 56 onwards.

MusicBox: See page 58 onwards.

CA module: Menu item only appears if a CA module

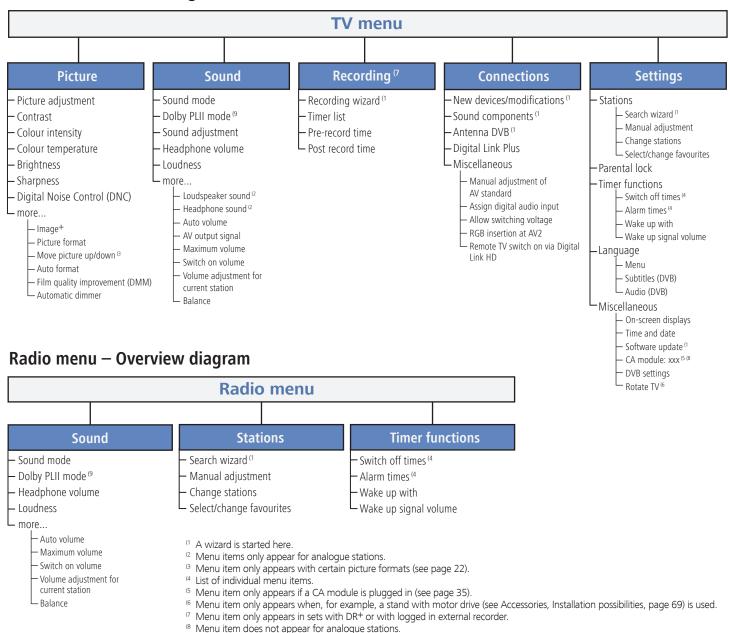
is plugged (see page 35) and a digital

station is selected.

Index: See left-hand column.

# **Operating convenience**

# TV menu – Overview diagram



<sup>9</sup> Menu item only appears with certain sound mode settings.

# **Select station**

### With the keys P+ and P- on the remote control



P+/P- Station up/down.

The station display with sound identification is displayed

- If favourites are selected, the station is switched over in the favourites list with P+/P- (see page 19).
- The symbols for the sound identification are described on page 23.
- If there are additional languages or DVB subtitles for DVB stations, then language and subtitle selection is shown below the station display. See also page 23: Additional selection possibilities for DVB stations.

### With the numeric keys of the remote control

### 1-digit stations



Keep the **numeric button** pressed for one second, the station changes immediately.

Press the **numeric button** briefly, the station changes after 2 seconds (changes immediately in case up to 9 stations are stored).

## 2-digit and 3-digit stations



Press first (and second) **numeric button** briefly.

Keep the last **numeric button** pressed for one second, the station changes immediately.

Press all the **numeric buttons** briefly, the station changes after 2 seconds (changes immediately in case of up to 99 or 999 stored stations).

### 4-digit stations



Press all four numeric buttons, the station changes immediately.

all short

- If favourites are selected, the station in the favourites list is switched to with the numeric buttons (see page 19). Maximum two-digit station numbers are possible.
- If you select an unoccupied station slot, the next available station is switched to.

#### Call last viewed station (for TV sets with MHEG-5 software)



You can switch back and forth guickly between two stations using this buttons.

#### With the station list

In normal TV operation, without further displays, no favourites selected:



OK Call Station list.







P+/P- Scroll in the pages of the station list.





or:

**↔** Jump to the next station block.



◆ Mark stations.



Enter the number of the station with the **numeric buttons**. The marked station is shown as a small picture.



**OK** The marked station is called.



■ • • Blue button: Changes the sorting between numerically and alphabetically.







Enter initial letters with the numeric buttons like with a mobile phone keypad (see page 15).

The first station for the specified letters is marked.



▲ ▼ ◀ ▶ Mark stations.

**OK** The marked station is called

#### With the favourites lists

You can save and call your favourite stations in 6 favourites lists (e.g. for multiple users). Each favourites list can contain up to 99 stations. After initial installation, 10 stations from the station list are already stored in the first list. Change the favourites list to suit your requirements (see **Put together / change favourites lists** on page 27).

■ In normal TV mode, without other displays:



**OK** calls the station list.





Select station directly with numeric buttons. Or:

▲ ▼ Mark stations.



- ◆ Select other favourites list.
- Other favourites lists can only be selected if these contain stations.

**OK** The marked station is called.

• • • • Red button: Back to the station list.

**Green button:** Scan all stations of the currently selected

favourites list.

**Yellow button:** Change the Favourites lists, see page 27.

### Explanation of the favourites lists:

The selection made with the red button (favourites list) is retained until you switch back to the station list with the red button.

If favourites are selected, the name of the favourites list appears in the status display after the station name after changing stations.

### Explanation of the icons following station names:

■ Digital DVB-T station (terrestrial via antenna)

C Digital DVB-C station (via cable)

S Digital DVB-S station (via satellite)

Coded station

# Select video source

Please ensure that the appropriate devices have also been registered with the connection wizard (see page 40).

#### With the AV selection



Call AV selection.





- ▲ ▼ Select desired device or connection,
- **OK** switch over.

A signal from the selected video source should now be visible.

#### With the station list

■ In normal TV mode, without other displays:



**OK** Call the station list.

If the favourites list is displayed, switch to the station list first.

In numerical sorting the connections or devices are always at the beginning of the list.

In alphabetic sorting, the connections or devices are sorted in alphabetically.





- ▲ ▼ ◀ ▶ Select connection/device.
- **OK** Switch over.

# Adjusting the sound

### Switching sound off/on



Sound off:

Sound on: Press button again or set volume V+.

### Setting the volume



V+/V- Volume louder / quieter.

The volume bar will be shown briefly if no other menu is displayed.

#### Setting the sound mode



Call Sound mode.



(5) 4 44 34 24 14 ◆ Select the number of speakers you want to hear.

### Additional sound settings for volume adjustment and for Sound mode:

As long as you can still see the volume bar or the selection of speakers for sound mode:



Call additional sound settings.





- ◆ Select sound setting,
- go to the menu line below.
- ◆ Make changes.

## Sound settings via the TV menu

In normal TV mode, without other displays.



Call TV menu.



- ◆ Select Sound
- go to the menu line below.
- ◆ Select desired sound setting,
- ◆ Make changes.

#### Explanations of the sound settings:

Sound mode Select the number of speakers you want to hear. The selection depends on the connected sound components (from page 47) and on the transmitted audio signal.

> If the number of speakers appears in brackets, the sound of missing speakers is transmitted by the existing speakers (virtual).

optimal The momentarily reproduced audio signal is output with the ideal number of speakers.

- 1 Play centre sound or mono (left/right).
- 2■ Play front sound (L/R stereo).
- 3 Play front and centre sound.
- 4 Play front and surround sound.
- 5■ Play front, surround and centre sound.

Amplifier ■ Play via an external HiFi amplifier. Selection is only possible

if an amplifier has been selected in the sound components wizard (see page 52).

Sound Speech, Classical, Pop, Custom music, and Custom film adjustment sound.

Headphone vol. Adjust the headphones volume.

Loudness Proper boost of bass and treble tones at low volume.

Dolby PLII Here you can make Dolby Pro Logic II sound settings for mode movie, music, matrix and personal settings. Menu item only appears with certain sound mode settings.

more ... Call with OK.

Loudspeaker/ Selection possibility Mono/Stereo or Sound 1 or Sound Headphone 2 for two-sound broadcasts separately for speakers and sound headphones. Only available for analogue stations.

Auto Volume Reduces volume differences, e.g. for advertisements that are too loud

AV output Sound selection for two-sound broadcasts.

volume

Maximum Determining the maximum volume that can be set.

Switch on Specify the volume that is set when switching on the TV volume set with the mains switch.

> If the volume when switching off the TV set into standby mode is higher than specified here, it is automatically reduced to the fixed switch-on volume when switching back on

Volume The volume can differ according to the individual stations. adjustment for If the sound is too loud or too guiet in relation to other current station stations, adjust the volume. When the menu is open, you can select the stations one after another with P+/P- and adjust every single station conveniently.

Balance Set stereo balance so that the volume impression is identical on the left and right.

# Adjusting the picture

MENU

Call TV menu.





- Select Picture,
- go to the menu line below.





- ◆ Select the desired picture function,
- ◆ Make changes.

## Explanations of the picture settings:

Picture Switches the picture parameters between standard and

adjustment personal values. Contrast Adjust contrast.

Colour intensity Adjust the colour.

Colour Set warmer or cooler tints for the picture.

temperature

Brightness Adjust the brightness of the picture.

Sharpness Adjust the contour sharpness of the picture.

DNC Removes or reduces the signal noise in the picture.

more ... Call with **OK**.

Image+ Picture improvement on/off and demo mode for Image+.

Picture format Set picture format (see page 22).

Move picture Move picture vertically (see page 22).

up/down

Auto format Automatic detection and setting of the picture format

for Cinemascope or widescreen movies.

DMM Reduce jolting.

Automatic The TV picture adapts to the ambient brightness. The dimmer power consumption of the TV set is also reduced.

### Standard values / personal values for picture adjustment



Call TV menu.



- ◆ Select Picture.
- go to the menu line below.
- ◆ Select Picture adjustment,
- go to the menu line below.





- ◆ Select desired values for picture,
- **OK** call selected values for picture.

### **Explanations for picture adjustment:**

Custom adjustments of contrast, colour intensity, colour temperature, brightness, sharpness and digital noise supression are saved in the personal values. There are separate personal values for every signal source (TV analogue, TV digital, HD analogue, HD digital, PC, PhotoViewer).

By selecting **Standard values** the picture parameters are reset to factory values for the respective currently active signal source.

For an explanation of the signal source, see glossary: **Signal input groups**.

In the index of the TV set, all the picture and sound adjustments can be reset to the factory values for all signal sources in one step under **Reset** picture/sound or Factory settings picture/sound.

# Operation without remote control

## Changing the station on the TV set



+/- Station up/down.

### Switching radio on or off or switching to radio



**R** Radio on or switching between TV and radio.

#### Calling the TV menu on the set



M call Direct control on TV set menu.



- -I + select function.
- Service is for customer service personnel only.

M or R Go to the menu line below,

- -/+ make changes.
- M Move up one menu line,
- -1 + select other function.

## **Button functions**

Every operating mode of the TV set (TV, Radio, Teletext, EPG, PIP, Photo-Viewer, MusicBox and DR archive) has its own menu and own functions for the coloured buttons. The function of the coloured buttons is shown at the bottom of the menus and wizards. Below, some of the function are listed which you need in TV mode for the daily handling of your TV set.

#### Functions of the coloured buttons in TV mode

The coloured buttons do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 33 (Digital Teletext).





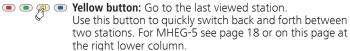


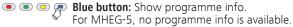


- ◆ Select Teletext subtitles or Personal text pages.
- ▼ Go to the menu line below in Teletext subtitles.
- ◆ Select the size of the Teletext subtitles,
- **OK** show Teletext subtitles. (display only if subtitles are available).
- **END:** Teletext subtitles off or select **off** in menu.



**OK** in **Personal text pages** calls the teletext pages or the teletext page directly if only one page is noted (for defining pages, see page 33).







#### Permanent display of time

Press twice in rapid succession: Time is displayed permanently.





#### Selecting the picture format



Press the **picture format button** until the desired picture format is set or press



◆ to select the desired picture format.

The **Panorama** picture format can be switched between proportionally correct and format filling reproduction. Dark margins are visible on the right and left of the picture in proportionally correct reproduction.



Switching over: Keep the **M button** on the set pressed, at the same time press the **Picture format button** on the remote control briefly.



Resetting: Press the same button combination again.

### **Explanations of the picture formats:**

- The setting options depend on the transmitted picture content.
- 16:9 Proportionally correct display of 16:9 programmes.
- 4:3 Proportionally correct display of 4:3 programmes.

anorama. Proportionally correct or format filling ron

Panorama Proportionally correct or format filling reproduction (delivery status) of 4:3 broadcasts on the 16:9 screen. Station logos and subtitles remain visible. See above for switching Panorama mode.

Cinema Proportionally correct, format filling display of 4:3 broadcasts on 16:9 screens. Station logo and subtitles usually not visible.

Zoom Proportionally correct display. Maximum picture magnification.

PALplus Is a 4:3-compatible 16:9 picture broadcast supplied by the station which is detected automatically.

If a high-resolution picture signal is displayed on the TV set or fed in via the interfaces PC IN, HDMI1/DVI, HDMI2/DVI or COMP. IN, the picture formats 16:9 TV, 4:3 TV as well as 16:9 PC and 4:3 PC can be set.

### Move picture vertically

■ In normal TV mode, without other displays:



To show subtitles or news tickers which have been cut off, the picture can be moved up or down in the picture formats **Panorama**, **Cinema** and **Zoom** (not with high resolution signal) with the **arrow buttons** ightharpoonup

For TV sets with MHEG-5 software you can switch back and forth quickly between two stations using these buttons (see also on page 18).



#### Status display

In normal TV mode, without other displays.



**END:** Show / hide status display. For MHEG-5, **INFO button**.



You will see the number and name of the station, the title of the current broadcast (if available) and the sound identification in the top two lines.

The bar (if available) indicates the progress of the current programme.

A selection (see right hand column), the time and, if activated, the alarm time and switch-off time appear at the bottom depending on the DVB station.

#### Explanations of the symbols for sound identification:

Transmitted audio signal:

Mono Mono audio transmission analogue

2-sound Two-sound transmission (Sound1/Sound2) analogue

Stereo Stereo sound transmission analogue or digital (PCM)

DI Digital Dolby Digital sound transmission (DD)

dts dts sound transmission

MPEG MPEG sound transmission

PLII Dolby Pro Logic II sound transmission

Transmitted audio channels:

DD / dts 1.0 / mono

DD / dts / MPEG 2.0

DD / dts 3.0

DD / dts 4.0

DD / dts 5.0

DD / dts 2.1

DD / dts 3.1

II DD / dts 4 1

DD / dts 5.1

Selected listening mode:

- ■1 Play centre sound or mono (left/right).
- ■2 Play front sound (L/R stereo).
- **◄3** Play front and centre sound.
- ■4 Play front and surround sound.
- ■5 Play front, surround and centre sound.
  - If the number of speakers appears in brackets, the sound of missing speakers is transmitted by the existing speakers (virtual). The Dolby Virtual speaker (VS mode) developed by Dolby is activated for the virtual sound reproduction.

### Additional selection possibilities for DVB stations

In the status display additional selection possibilities can be offered for specific programmes depending on the DVB programme provider.

- The coloured buttons do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 33 (Digital teletext).
- If during the status display you press one of the coloured buttons or the TEXT button then the associated selection menu will be displayed.
- The selection line is also displayed automatically when a new broadcast with different options to the previous broadcast begins or when you switch stations.

The following options are possible:

• • • • Red button: Channel selection for multi-channel providers

Green button: Language/audio selection

Yellow button: Time selection

Blue button: Protection of minors

TEXT: DVB subtitles

The selection menus are only available as long as the status display is shown. However you can call them again

by pressing the **END button**.

#### Other setting options for DVB stations

You can make general presettings for DVB stations under **TV menu**  $\rightarrow$  **Settings**  $\rightarrow$  **Miscellaneous**  $\rightarrow$  **DVB settings**.

Subtitle Here you can preset whether a subtitle is always to be

mode displayed as soon as it is offered by the station. A special subtitle for impaired hearing can also be selected.

Subtitles are not offered by all stations. Many stations only broadcast subtitles by teletext.

broadcast subtities by teletext.

Audio Here you can preset whether you always want to hear a mode special sound for impaired sight as soon as it is offered

by the station.

DVB character Select the DVB character set so that the title of the broadset cast of your favourite received station or the texts of your

set cast of your favourite received station or the texts of your CA module are displayed correctly.

## TV stations

Various options for managing stations are available via the TV menu. For example the description for TV stations. For radio stations the same applies, except that the radio menu is called in radio mode (see also page 34).

Station management is not possible if a programmed timer recording is still pending.

#### Search/update stations - Search wizard

In the search/update with the search wizard, new stations are searched for which are not yet stored.

You have to repeat the initial installation (see page 12) and automatically search for new ones if you want to delete all the existing stations and automatically search for new ones. Do also use the first installation if you want to change to receiving MHEG-5 stations (attend restrictions for DVB software update, see page 36).



#### Call TV menu.



- ◆ Select Settings,
- go to the menu line below.
- ◆ Select Stations.
- go to the menu line below.
- ◆ Select Search wizard.
- go to the menu line below.

In the upper info text the current search settings will now be displayed:



If you want to change these search settings:



- ◆ Select Change search settings,
- **OK** wizard prompts search settings.

If you agree with these settings:

- ◆ Select Start search/update,
- **OK** start search.

## Explanations of some search settings:

Set location Select the country for country-specific defaults and station sorting.

Signal source Select antenna, cable, or satellite here, depending on where you want to search for new stations.

At this point you can also call a configuration of the

At this point you can also call a configuration of the DVB-T and DVB-S antennae via the **green button** (see page 13).

Antenna/cable: With selection of set location the conventional TV TV/colour standard/colour standard is the default. This should only standard be changed if stations with other standards are to be searched.

Encrypted You can state whether coded stations are to be searched for in the search/update. Select **yes** then coded stations are also searched for. However, these stations can only be received in connection with a CA module and the appropriate Smart Card. Ask your dealer which Smart Card you need to receive certain stations. Handling of the CA module is described on page 35.

**DVB-T** If you want to run the station search independently of Search method the channel grid, select **frequency search** for the search method

**DVB-C** With the selection of set location the conventional set-Settings will be preset. Only change this if you know other symbol rates and modulation types or if you have to specify the network ID for your cable network (information available from your cable network provider). If you want to run the station search independently of the channel grid, select **frequency search** for the search method.

**DVB-S** If you want to run the station search independently of Settings the channel grid, select **frequency search** for the search method.

The symbol rate is specified by the satellite provider and normally does not need to be adjusted.

### Search for/update stations – handling of new and no longer found stations

The number of new stations found is displayed after the automatic search/update has been completed.



OK List of new stations found





Select station.

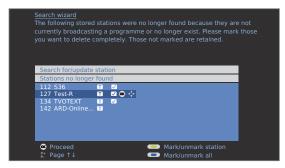
Blue button:

Yellow button: Mark / unmark station Mark / unmark all

**OK** saves the selected stations

Afterwards, a list of the stations which are saved but which are temporarily not broadcasting or no longer exist is displayed, if available.

The number of the memory location used is displayed in front of the station. Please select the stations you really want to delete.





◆ Select station,

**Yellow button:** Mark / unmark station Blue button: Mark / unmark all

**OK** deletes the selected station.



**END:** Exit the search wizard.

### Search/update station – manual search



Call TV menu.



- ◆ Select Settings,
- ◆ Select Stations.
- go to the menu line below.
- ◆ Select Manual adjustment,
- **OK** call input box.

You can enter or edit the station data in the following



Or:

• • • Blue button: Starts Search and searches for next station.

Red button: Stores station.

- Only stations for the selected signal source can be saved which do not yet exist in the station list.
- Stations which already exist in the station list for the selected signal source are displayed with their station numbers and names on a grey background. These stations can only be overwritten with the red button.

#### Explanations of some search settings:

Various settings are possible depending on the selected signal source. Some settings have already been explained in the initial installation (see page 12 onwards).

Signal source Selection of range in which you want to search for the

station.

Direct input of channel. Channel

Frequency Direct input of station frequency.

TV stand. Input of station TV standard.

(B/G, I, L, D/K, M, N) Ask your dealer in this regard.

Col. standard Input of the station colour standard.

(PAL, SECAM, NTSC-V, PAL60, Autom.)

Ask your dealer in this regard.

#### Change, delete, move, rename, restore stations

Change stations can also be called via the station list (page 18).



#### Call TV menu.



- ◆ Select Settings,
- go to the menu line below.
- ◆ Select Stations.
- go to the menu line below.
- ◆ Select Change stations,
- **OK** call list of stations.





In this menu you can delete, move, rename or restore stations.



#### ◆ ➤ or numeric buttons:

Select the appropriate station. Scroll with P+/P- if necessary.

#### **Delete station**



Red button: Starts Delete station.



- **OK** to execute the delete

#### Move station / Change order

- Not possible for MHEG-5 stations.
- Stations can only be resorted within their signal source block.





**Yellow button:** Starts **Move** station.



- **OK** to end marking.
- ▲ Selection insert position from which the marked stations are to be inserted.

**OK** to execute the move

#### Rename station

- Not possible for MHEG-5 stations.
- DVB stations for which the station name is also broadcast cannot be renamed. In this case, the Rename function is hidden



• • • Flue button: Starts Rename station.

Under the 1st letter of the name you will see a line indicating the current input position.



- ▶ Input position one character to the right (also for
- ◆ Input position one character to the left (deletes the character).



Enter the letters one after another with the numeric buttons on the remote control. Like using a mobile phone keypad, press a numeric button until the desired character appears. The available letters are printed respectively on the buttons. Different special characters can be selected with button 1.



Green button: Switch upper/lower case letters.



**OK** to save new name.

#### Restore stations

Stations which have been deleted from the station list can be restored.





• The section of t





- ▲ ▼ ◀ ▶ Select station.
- **OK** station is restored.

The restored station is sorted in according to its signal source at the end of the respective signal block.

# Put together / change favourites lists

Each favourites list can contain up to 99 stations. You can put together the favourites lists to suit your requirements (e.g. topic lists). Other persons using this TV set can create their own favourites lists.

The favourites lists also have the advantage that the stations of different signal sources can be stored in the order you wish.

Change favourites can also be called via the favourites list (page 19).

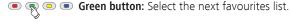


#### Call TV menu.



- ◆ Select Settings,
- ◆ Select Stations,
- ◆ Mark Select/change favourites,
- **OK** calls list of all stations and last active favourites list.





#### Rename favourites list

Favourites list (right column) must be selected. If not, change the list with ▶.



• • • Blue button: Starts Rename favourites list.



**Numeric buttons:** Enter new name (same procedure as for rename station, see page 26).



**OK** to save new name.

#### Add station to favourites list

→ All stations (left column) must be selected.

If not, change the list with ◀.



**P+/P**– Scroll in the pages of the station list if necessary.



▲ Mark station or select station with the numeric buttons (for alphabetical station sorting enter the initial letter) which is to be transferred as a favourite to the favourites list.



OK transfers the station to the favourites list. The new station is inserted at the end of the favourites list. Proceed in the same manner with additional stations.

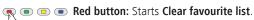
#### Delete station from favourites list

Favourites list (right column) must be selected. If not, change the list with ▶.



- ▲ ▼ Mark station to be deleted.
- **OK** Removes the marked station from the favourites list.

or.





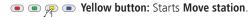
**OK** confirms clear favourites list.

### Move / change order of stations in the favourites list

Favourites list (right column) must be selected. If not, change the list with ▶.



▲ ▼ Mark station to be moved.





➤ Select insertion position at which the marked station is to be inserted.



The insertion position can also be selected with the numeric buttons.



**OK** to execute the move.

# **Picture in Picture**

# **Picture in Picture (PIP)**

The concurrent display of two different images is referred to as Picture in Picture.

- The coloured buttons do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 33 (Digital
- A concurrent representation of two HDTV signals is not possible.
- A concurrent representation of two coded stations is not possible.
- Picture change and station selection is restricted during recording.

#### Your TV set distinguishes between two PIP displays:

Split screen In this case the screen is divided in the middle and the additonal PIP image is shown on the right side of the screen. Both images are compressed horizontally and each gets half of the screen.

Small PIP In this case a small PIP image is inserted in the TV picture.

### The PIP operation distinguishes between two functionalities:

Standard PIP Stations freely selectable and changeable for PIP and TV picture (coloured buttons have PIP-specific meaning, see below).

> iPIP The TV picture is moved to the PIP picture when you press the PIP button. The station of the TV picture is now freely selectable. When you press the PIP button again, the PIP picture returns to the TV picture and the PIP window closes.

#### Start and end Picture in Picture mode



Show/hide PIP.

In the Standard PIP function a green frame indicates that the station selection acts on the PIP picture. A white frame means that the operation refers to the main picture. If the frame is blue, the station scan is active in the PIP picture. If the iPIP function is activated, this is indicated by an orange frame.

For TV sets with MHEG-5 Software, you switch from the green bar/frame to the white by using the PIP key. The next time you press the PIP key, PIP is switched off.

#### Standard PIP operation:

#### PIP as freeze picture

The frame is green, if not, press the green button.

• Red button: Freeze picture in PIP on / off.

#### Swap contents of PIP and main picture

The frame is green, if not, press the green button.



P Vellow button: Swaps contents of TV picture and PIP picture.

#### Select the PIP picture

The frame is green, if not, press the green button.

Select the station as usual.



## Select the station for the main picture

The frame is white, if not, press the **green button**.

Select the station as usual



#### Scan station in the PIP

The frame is green, if not, press the green button.





• • • Plue button: Start Scan stations.

The frame turns blue, the stations now change automatically.





• • • Blue button: Stop Scan stations.

The frame is green again.

# **Picture in Picture**

# **Configure Picture in Picture (PIP) mode**

In the PIP menu you can set the PIP type (Split Screen or Small PIP), the PIP function (Standard PIP or iPIP) and the position of the small picture.

#### Start PIP menu

- ➡ PIP mode started, if not, press PIP button.
- The frame is green, if not, press the **green button**.



Call PIP menu.



### Switch to Small PIP / Split screen

■ PIP menu open.





- ◆ Select Type,
- go to the menu line below.
- ◆ Select Small PIP or Split screen.

### Change position of the PIP small picture

Other than the status line, which may possibly be displayed, no other display is shown on the screen:





▲ ▼ ◀ ▶ Move the PIP into a corner of the screen.

The position of the small picture can also be selected under **Position** in the PIP menu.

### Switch to iPIP / Standard PIP function

PIP menu open.





- ◆ Select Functions,
- ◆ ➤ Select iPIP or Standard PIP. In iPIP the frame around the PIP picture is orange.

#### iPIP operation:



When the iPIP function is set, the currently displayed picture becomes the PIP picture on pressing the **PIP button**. You can select other stations for the TV picture and still keep an eye on the PIP picture. You can temporarily "ban" commercials or programme sections to the PIP picture in this way.



The PIP picture becomes the TV picture again (PIP off).

# **Electronic Programme Guide**

# **Electronic Programme Guide – EPG**

EPG stands for Electronic Programme Guide and provides you with on-screen programme details. With the system, as with a printed programme guide, you can learn about the current programme. In addition programmes can be sorted according to certain topics, memorised, and also recordings can be programmed.

### Starting and ending EPG



Switch EPG on / off.

- A wizard will guide you through the necessary presettings the first time you start the EPG. If you have analogue reception, you enter the data capture for analogue stations after that (see page 31).
- For TV sets with MHEG-5 software, EPG is only possible for DVB-T stations.



The display of the programme guide is divided into two branches. The programme list (bottom) is influenced by certain specifications (top).



• • • Blue button: Switches between the upper default lines Date, ..., Topics and the lower programme list.

#### Switching and memorizing with the programme list

- In the programme list first all currently running programmes are listed.
- You are in the lower programme list, if not, press the blue button.



▼ ▲ Select station.

OK View / Memorise.

View The programme is in progress. The TV set switches to the marked programme.

Memorise The programme has not started yet and is memorised. A appears in front of the programme. The TV set switches over automatically to the beginning of the programme or, if set in the EPG menu (page 31) on from standby mode.

#### Adjusting the programme list

The selection is at the top of the specifications, if not, press the **blue button**.



- ▼ ▲ Select Date, Time, Stations or Topics.
- ◆ Select defaults within the respective line.



Example If you are searching for the next news, select today's date, 17:00 for example for the time, all for station and News for topics. Then you get a list of all news programmes from 17.00 h onwards in the programme list below it. The type of list of programmes in the programme list depends on the setting of the sorting in the EPG menu

(page 31).

Time entry If the line **Time** is selected, then you can enter the time after which the programmes will be displayed, via the numeric buttons of the remote control. The broadcasts are sorted according to the order of the station list within the selected time window.

Stations If a **favourites list** has been selected, only the programmes of stations from the favourites list are displayed in the programme list. A single station can be selected with "...". The Select single station window is opened. After selection, only programmes of the selected single station are displayed.

Hint Before pressing the **blue button** to leave the upper selection lines, select one of the preceding lines. If you then switch back to the programme list, you can change this menu line with ◀ ▶, without having to leave the programme list. If you have marked **Time**, then you can enter the time, after which the programmes will be displayed, with the numeric buttons of the remote control.

#### Paging through the programme list



P+/P- Page backwards / forwards.

In the entries for **Date** and **Time**, you will see changes in time as well as in date when paging. Scrolling in the programme list is also possible when the selection is at the top of the specifications.

# **Electronic Programme Guide**

#### Calling additional information about the programmes

Brief information about many programmes is displayed below the programme list of the broadcasts.



You can call detailed information with the **TEXT button** if this function is offered by the TEXT icon in the lower left.

### Programming a recording for a recorder

The selection is in the lower programme list, if not, press the blue button.



▼ ▲ Mark the desired programme.



Red button: Starts recording wizard.

Change or confirm timer data if necessary (see page 54, "The direct way to record").

Then a **red dot** will be displayed in front of this programme as an identification.



• • Red button: Deletes the already programmed recording of the red marked programme from the timer. If the timer data have been transferred to an external recorder, then the timer must also be deleted there.

# **Configuring EPG**

Start the EPG menu

■ EPG mode is started, if not, press the **EPG button**.



Call the EPG menu.



Settings in the EPG menu:

Select provider (only for analogue stations), Station selection, Data capture, Switch on TV when marked, Sorting.

### Explanations of setting possibilities in the EPG menu:

Select In analogue TV reception there may be different providprovider ers who transmit the EPG data for certain station pack-

> You can have the **list** of providers created **automatically** with the **yellow button** in the **provider selection**. You can select the desired provider at the end of the provider search. You can create the list of providers manually with the blue button

Station In the **station selection** you can determine for which selection station in the programme guide information is to be displayed. Only stations with **are** shown in the EPG.

With the coloured buttons you can select or remove stations or only select the stations from the favourites

Because of the large number of receivable DVB-S stations you should restrict the station selection. This reduces the data entry time and increases the clarity in the EPG.

Marking the stations according to reception ranges:

- **E** Analogue stations via antenna/cable, for which the current provider supplies data.
- Digital terrestrial stations DVB-T.
- C Digital cable stations DVB-C.
- S Digital satellite stations DVB-S.

Data capture on (for DVB + analogue): data capture for DVB and analoque stations

> **on (only for DVB):** data capture only for DVB stations. off: no data capture.

After changes in the EPG menu or after switching off at the mains switch the EPG data must be collected first. To do this, switch on the set and select the station from the analogue stations which you want defined as a provider and let the TV set run for about 1 hour with the selected station Or:

Switch the TV set into standby mode. The display on the TV set glows orange after 2 minutes and the EPG data entry begins.

The data capture normally takes place at night between 2 and 5 o'clock if the TV set is in the standby mode.

Switch on TV when marked When yes is set, the switched off TV switches on automatically from the standby mode at the beginning of a set program. A screen message appears when switching on. If this is not confirmed within 5 minutes with the OK button, the TV switches back off automatically for safety reasons.

Sorting The programmes can be sorted either according to their start times (chronologically) or according to stations (corresponding to station list).

# **Teletext**

## **Teletext**

Your TV set supports the two operating systems TOP Text and FLOF. Up to 2,000 pages are stored so that you have quick access.

#### Starting and ending Teletext

TEXT

Switch Teletext on / off.



### Page selection with the coloured buttons

Red button:

Back to the previously viewed page.

Green button: On to next page. Yellow button: To next topic.

To next range of topics. Blue button:

The coloured bars (for TOP) or the coloured text (for FLOF) in the second to last line indicate which coloured buttons you can use to page through topic areas and topics.

## Teletext page displays

O AV

0 AV: Stop self changing pages.



Enlarge page (press several times).

PIP button: Show / hide TV picture.



### Additional page selection possibilities

### 1st possibility:



Call overview page 100.



#### 2nd possibility:

Directly enter the page number.

### 3rd possibility:

The page includes 3-digit page numbers.



▼ ▲ Mark desired page number.

Formel 1	: Neues Reglement 1	abgebrochen	213
	ARD-Mittagsmagazin agesschau		
Wetter Sport	hau	Gesellschaft Lotto/Toto Wirtschaft	500 530 666 700
	+ Inhalt	tagessc	hau
, Pa	ge selection	View	



OK Call the page.

### 4th possibility:

The page consists of several sub-pages (indicated by the selection option on the last line).



TV Guide . . . . . . 300/400 Wirtschaft. . . . . . 700 tagesschau

◆ Page through sub-pages.

#### Call TOP table

The table can only be called for stations with the TOP operating system.



OK Call TOP table.





- ◆ select topic column,
- ▼ ▲ select topic,

**OK** call the page.

# **Teletext**

### Programming timer recordings via Teletext

Teletext is started, if not, press the **TEXT button**.



Call the programme pages of the current station.



• Green button: Go to the appropriate page.



✓ A Select the desired programme,
 OK to programme the recording.

Change the appropriate recording data in the following menu **Timer data** if necessary (see also page 54, "The direct way to record").

OK Confirm.

# Teletext menu

In the Teletext menu you can, among other things, activate news, reveal pages and configure the teletext with the **Settings** menu function.

### Starting the Teletext menu

Teletext is started, if not, press the TEXT button.



Call the Teletext menu.



### **Explanations of the Teletext menu functions:**

Newsflash

The current page is hidden when you activate **Newsflash**. A symbol at the top left indicates that the function is active. If the contents of the message are updated and it is a small newsflash, this is displayed in the TV picture. If it is a full screen page, the symbol is displayed in blue and the page can be called with the **OK button**.

Revea

Shows concealed information, e.g. for quiz questions or VPS times in the programme preview pages.

### **Explanations of the Teletext menu functions:**

Recording A wizard for **recording** via teletext helps to programme an external recorder or the integrated Digital Recorder, see also the left column.

Settings Other Teletext menu functions:

Preview Input of the first teletext programme preview page if this pages deviates from the factory setting (page 301).

Sub-title Input of the teletext subtitle pages for every station if this pages deviates from the factory setting (page 150).

Personal Define up to six teletext pages which can be opened later from a list in the menu **Teletext functions** → **Personal text** pages (in TV mode press **green button**, see page 22).

Character set Teletext character set can be switched to other languages (Russian, Greek, Polish and Turkish).

HiText Improved graphic representation of the Teletext. (Not offered by all stations.)

# **Digital teletext (MHEG-5)**

In the UK or Ireland, the teletext for DVB-T stations is transmitted as per the MHEG-5 standard. It contains text, graphics, functions and links.

- Only for TV sets with MHEG-5 software.
- At the moment only available in United Kingdom and Ireland.
- Digital teletext is not available when DVB subtitles are being displayed.

The operation of these menus depends on the particular provider. Normally after a station is changed, the provider broadcasting the digital teletext makes an introductory offer for this service on the screen via menu selection. Follow these notes.

If no message appears telling you how to switch to digital teletext after switching to another station, press the **TEXT** key. If a selection for DVB subtitles is available, this item must be hidden before

Depending on the provider's respective offer, you can use the A V A buttons and the OK button, the coloured buttons, the END/TEXT button and sometimes even the numeric buttons.

If you want to close the digital teletext, just select a different station using the **P+/P-buttons** or follow the menu prompts on the screen.

# Radio

## Radio mode

You can only receive radio stations via DVB.

If you do not have DVB radio reception then you can play audio from an external device via the TV set using the audio/AV inputs.

For TV sets with MHEG-5 software, the buttons may be configured differently by the provider.

#### Radio mode on



RADIO button on the remote control



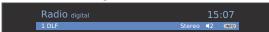
**R** on the operating ring on the TV set.



You see and information window about the currently set station.



Minimise Radio dialogue to an info line / maximise.



### Station switching



P+/P- or the numeric buttons of the remote control.

+ I - on the TV set operating ring.



### OK Call station list / favourites

The selection of the stations / favourites is the same as the procedure in TV mode (see pages 18 and 19).

### Setting the volume



**V+/V**– Volume louder / quieter.

Other sound settings are the same as for the volume setting in TV mode (see page 20).

#### Setting the sound mode



Call Sound mode.

Other settings as for TV mode (see page 20).

#### Switching the screen on/off



• Red button: Switch off the screen.

The **LED display** on the set changes from green to orange.

Switch on the screen with the remote control: Red button OK button or RADIO button

Switch on the screen on the TV set: Press R on the TV set operating ring.

#### Radio menu

In the Radio menu, you can set the sound, search for and store radio stations (automatically or manually), change stations and set switch off/alarm functions.

The settings are made as described in TV mode.

#### Call radio menu

Radio mode switched on, if not, press the **RADIO button**.



Call the Radio menu.



#### Switch off radio mode



**TV button** on the remote control.



Or:

**R** on the operating ring on the TV set.

# **EPG** – **Electronic Programme Guide (radio)**

For the DVB radio stations you can also use an electronic programme guide, if the station that is currently active supplies data.

#### Starting and ending EPG

Radio mode switched on. if not, press the **RADIO button**.



Switch EPG on / off.

The EPG functions in radio mode are the same as in TV mode. Read from page 30 onwards for further information.

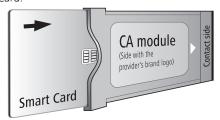
# **Conditional Access module (CA module)**

In order to receive coded digital stations, a Conditional Access module (CA module) and a Smart Card must be inserted in the CI slot of your TV set (see page 5 and 6).

The CA module and the Smart Card are not part of the TV set's scope of delivery. They are usually available from your dealer. Loewe does not provide any guarantee for the functioning of the CA module.

### Inserting the Smart Card into the CA module

Push the Smart Card into the CA module as far as it goes so that the side with the gold coloured contact chip is facing the side of the CA module marked with the provider's logo. Note the direction of the arrow printed on the Smart Card.



## Inserting the CA module in the CI slot

Switch off the TV set's mains switch.

Remove the cover from the rear of the set



Carefully insert the CA module in CI slot 1 or CI slot 2 with the contact side forward.

If you are standing in front of the TV set (display) then the logo on the CA module must be pointing to the rear. Do not use force. Make sure the module is not twisted in the process. If the CA module is correctly installed, the ejector button protrudes a little further.

Replace the cover.

#### Searching for encrypted stations

The search wizard must only be started if the setting option **no** has been selected during first installation in the search for encrypted stations or no CA-module was inserted.



Call TV menu



- ◆ Select Settings,
- go to the menu line below.
- ◆ Select Stations,
- go to the menu line below.
- ◆ Select Search wizard.
- go to the menu line below.
- ◆ Select Change search settings,
- **OK** wizard guides you through the search settings.

See page 24 for a description of the search settings.

#### Calling CA module information

This menu is only available for digital stations.



Call TV menu



- ◆ Select Settings,
- ◆ Select Miscellaneous,
- go to the menu line below.
- ◆ Select CA module: xxx (xxx corresponds to the CA module provider),
- **OK** call information.

The content of this menu depends on the provider of the CA module

## Removing the CA module

Switch off the TV set's mains switch



Remove the cover from the rear of the set.

Press in the ejector button on the appropriate module drawer, the module is released.

Remove the module from the set

Replace the cover.

# Software update

#### TV base software and DVB software

Your TV set provides the option to update the TV basic and DVB software. The current software versions can be installed on your set with a USB stick

Contact your dealer for a software update by USB stick.

The software can also be updated by different DVB reception paths (DVB-T, DVB-C, DVB-S).

However, the prerequisite for this is that the software is provided by the appropriate DVB reception path.

This may differ depending on the TV set and the DVB program provided.

Ask your local dealer for information whether a software update via DVB reception path is possible.

### Automatic information by new software version

In the **Change update settings** menu (see right column) you can determine via which DVB reception path (if possible) you want to receive updates.

Your TV set determines automatically overnight whether a new software version is available via the selected DVB reception path. The TV set must be left in the standby mode for this (do not switch off with the mains switch).

If a new software version is available, the TV set informs you of this in an on-screen message the next time it is switched on (see page 37 – Loading new software).

#### Manual search for new software

If it is not displayed automatically that a new software is available when you switch on the set, you can also search for one manually. The search depends on the selected update source(s).



#### Call TV menu.



- ◆ Select Settings,
- ◆ Select Miscellaneous,
- ◆ Select Software update.
- **OK** Open the software update wizard.

The current update settings are displayed in the info text.



If you want to change the update settings:



- ◆ Select Change update settings,
- **OK** the wizard polls the update settings.
- The selection options depend on the antenna cables connected at the initial installation (see page 12).

### **USB** only

New software is searched for via USB.

#### **USB and DVB-T**

New software is searched for first via USB then via DVB-T (digital terrestrial transmission).

#### **USB and DVB-C**

New software is searched for first via USB then via DVB-C (digital cable transmission).

#### USB and satellite

New software is searched for first via USB then via DVB-S (digital satellite transmission). The name of the currently selected satellite is displayed.

## Setting parameters of the different DVB update sources:

Channel Select the channel on which the new software is provided

Frequency Enter the frequency of the station to be transmitted directly.

Bandwidth Is preset automatically depending on the selected channel.

Symbol rate Enter the symbol rate of the station to be transmitted directly.

QAM Set the suitable type of modulation.

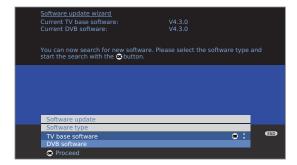
Band Set the transmission range for satellite reception.

### **DVB**



If you have adapted the update settings:

- OK proceed.
- ◆ Select Start update,
- **OK** start update procedure.





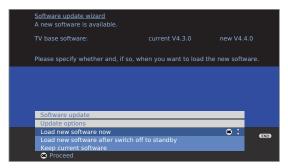
▲ ▼ Select software type:

TV base software or DVB software,

**OK** start search.

If a new software version is available after the search, the following screen message appears.

#### Loading new software





▲ ▼ Select update option:

Load new software now Load new software after switch off to standby (update after switching off) Keep current software (no update desired).

- **OK Proceed** or exit wizard.
- OK Start Software update.

A bar informs you about the progress of the charging process. Do not switch your set off during this time!

This process can take up to 20 minutes depending on the selected update source. You will be informed at the end.

#### At the end of charging:

Switch the TV set off and back on with the mains switch. This is unnecessary when loading the software with the **Load new software after switch off to standby** update option.

If a new software has not been updated by a DVB station, you will be reminded of this several times when switching on the set.

If a new TV software and a new DVB software are available in the automatic search for new software via DVB stations (see page 36), you can choose which software is to be updated.

# Other settings

### **Parental lock**

You can select and set various security options to prevent unauthorised use of the TV set and to protect your children from unsuitable programmes.

#### Defining the access code (PIN)



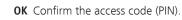
Call TV menu.



- ◆ Select Settings,
- ◆ Select Parental lock,
- go to the menu line below.



Define a four digit access code (PIN) the first time you open it. The numbers appear in plain text. Note the access code (PIN) well.



The **Parental lock** menu is opened.

The four-digit access code (PIN) must be entered when the parental lock is opened in future. It appears encrypted (\*\*\*\*) when entering for security reasons.

#### Code number

The code number cancels all entered PINs. It can be used for example if you have forgotten your PIN. You will find a note about the code number on page 69. Remove this from the manual and keep it in a safe place.

#### Explanations of setting possibilities in the Parental lock menu:

	·
Lock immediately	The TV set is locked immediately on exiting the menu. Programmes of any kind can then only be watched after entering the PIN.  The lock remains active until switching off in the menu.
Lock daily	The TV set is locked daily at the fixed time. Programmes of any kind can then only be watched after entering the PIN.
Age-related lock	Some DVB stations also broadcast an age classification. If the age set here is below the broadcast age limit, the pro- gramme can only be watched after entering the PIN.
Change access code	You can change your PIN at any time. Enter the new PIN in place of the old one.
Delete access code	You can delete your entered PIN at any time.

### **Timer functions**

This menu offers you convenient alarm services. Programmed alarms are also active when the TV set has been switched off to standby. If the TV set switches on from the standby mode by alarm, a screen message appears. If this is not confirmed within 5 minutes with the **OK button**, the TV switches back off automatically for safety reasons.

The TV set can also be switched off automatically at certain times. A screen warning appears one minute before automatic switch off. The automatic switch off can be interrupted by pressing any button.

#### **Call Timer functions**



Call TV menu.



- ◆ Select Settings,
- go to the menu line below.
- ◆ Select Timer functions,
- ◆ Select the desired setting.

#### Explanations of setting possibilities in the Timer functions menu:

Switch off The set switches to the standby mode automatically at

today only	the specified time.  If a time is specified which has already passed on the same day, the set switches off at this time the next day.
Switch off daily	The set regularly switches to the standby mode automatically every day at the specified time.
One-time reminder	The set alerts you once today at the specified time. If a time was specified which has already passed on the same day, the alarm is saved for the next day.
Wake up Mon-Fri	The set regularly alerts you from Monday to Friday at the set time.
Wake up Sat	The set alerts you regularly every Saturday at the specified time.
Wake up Sun	The set alerts you regularly every Sunday at the specified time.
Wake up with	Specify whether the TV set switches on in the event of an alarm from the standby mode in <b>TV</b> or <b>radio mode</b> with the respectively last active station.
Wake up signal volume	Set the desired volume of the alarm tone. The alarm tone is emitted as a continuous tone as a guide during the setting.

# Other settings

### **On-screen displays**

You can select different settings in this menu which affect the on-screen displays.

#### Call On-screen displays



Call TV menu



- ◆ Select Settings.
- ◆ Select Miscellaneous,
- ◆ Select On-screen displays,
- ◆ Select the desired setting.

#### Explanations of setting possibilities in the On-screen displays menu:

On-screen Here you set the duration of the display, e.g. for the voldisplay time ume or the station display when changing stations. The duration can be set between 2 and 9 seconds.

On-screen You can select between an upper and a lower display posidisplay position tion so that other displays (subtitles) are not concealed.

Volume Here you set whether or not the change in the volume should also be displayed visually on the screen.

Automatic Select yes here if you want to be able to see the addi-Info tional help permanently in the upper part of the screen while navigating the menu. Also see page 15 for further information.

### Time and date

If you receive a station with teletext after switching on the TV, the time and date are recorded automatically. The date may have to be entered manually for some stations.

Enter the time and date manually if you receive station without tele-

#### Call time and date



Call TV menu



- ◆ Select Settings,
- ◆ Select Miscellaneous.
- ◆ Select Time and date.
- go to the menu line below.
- ◆ Select the desired setting.

#### Explanations of setting possibilities in the Time and date menu:

Time Enter the time (00:00 to 23:59) with the numeric buttons of the remote control

Deviation from The current time at the Greenwich Meridian 0 is to be Universal Time understood as world time. The time shift in relation to this time must be given in hours (-11 to +13) (with the buttons ◆ ▶ or the numeric buttons on the remote control). Summer time is ignored.

> Date Enter the date (day.month.year) with the numeric buttons on the remote control

Beginning of Enter the date on which the time is switched over to daylight-saving summer time if it deviates from the automatically caltime culated date.

End of Enter the date on which the summer time ends if it devidaylight-saving ates from the automatically calculated date. time

### **Connection wizard**

The connection wizard serves to connect accessory equipment optimally to the TV set, make changes to the wiring of the devices or remove momentarily logged in equipment. The exact process of the wizard depends on the choice of equipment.

- New equipment should not be connected until it has been logged in in the Connection wizard first.
- DVD player on AV1 and DVD recorder on AV2 are preset at the factory.



Call TV menu.



- ◆ Select Connections.
- go to the menu line below.
- ◆ Select New devices/modifications,
- **OK** calls the wizard.





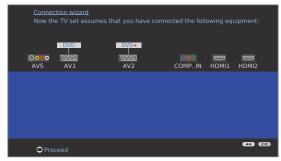
The connection wizard can be exited at any time with the END button.



#### OK Proceed.

The connection diagram shows the currently logged in equipment.

# Connection diagram





OK Proceed.

Select the equipment you want to connect or remove equipment you no longer use in the AV equipment selection.



▲ ▼ Select equipment/connection.



P Sellow button: Connect/disconnect equipment.

A **Camcorder / camera** is connected to the TV set additionally in the following example.

AV equipment selection

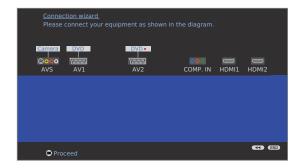




#### OK Proceed.

The connection diagram is displayed again. Connect the equipment to the corresponding connections of the TV set as shown in the connection diagram.

The accessory equipment should be connected to the TV set with the power off (disconnected from the mains). See also the instructions in the operating manual of the equipment to be connected.





OK Proceed.

Signal type





➤ Select the signal types of the individual devices one after another where necessary.

Normally you should leave the setting on **Automatic CVBS/YC** (e.g. for DVD player/recorder) or **Autom.-VHS/SVHS** (e.g. VCR), otherwise select the suitable signal type.

#### OK Proceed.

Immediate playback





◆ Select yes or no.

If playback is started on a device connected to AV1 or AV2, the TV switches immediately to the appropriate AV input when **yes** is set.

When playing devices with Digital Link Plus, the appropriate AV input is always switched to regardless of the setting.

#### OK Proceed.

Assign digital audio input





➤ You have to feed the digital audio signal to the TV set for the digital audio reproduction from an external device.

The digital audio input (**AUDIO DIGITAL IN**) of the TV set must be assigned to the appropriate connection of the external device.

If **no** is selected, the analogue sound is used.

#### OK Proceed.





If you have registered a recorder into the connection wizard, the Digital Link Plus transmission starts.

If a Digital Link Plus capable recorder is connected, the station list of the analogue stations is transmitted to the external recorder.

You can also call Digital Link Plus under TV menu  $\rightarrow$  Connections  $\rightarrow$  Digital Link Plus.



END: Exit connection wizard.

### Devices to the connections AV1/AV2/AVS

Accessory equipment such as DVD players, video and DVD recorders etc. can be connected to the TV set at the Euro-AV sockets **AV1** and **AV2** (see pages 5 and 6).

The AV input **AVS** (see pages 5 and 6) offers the possibility of connecting a digital camera or a camcorder for example.

All devices at the AV inputs must be registered in in the connection wizard (see page 40 onwards).

The connection designations vary according to the logged in device. The AV selection then contains, for example, **DVD** in place of **AV1** or **CAM** in place of **AVS**.

The Euro-AV sockets can process different signal types. Which signal type your accessory device provides can be found in the operating manual of the appropriate device.

Owing to the large number of AV devices available on the market, we can only mention a few examples for the connection of accessory equipment to the AV sockets here.

The following description of the connected equipment to the connections **AV1/2/S** refers to the device types logged into the connection wizard from page 40 onwards.

If the sound of a device connected to an AV socket is to be transmitted digitally, a cinch cable must be plugged between the coaxial digital output of the accessory equipment and the **AUDIO DIGITAL IN** socket of the TV set. In addition the digital audio input must be assigned to the corresponding AV socket in the connection wizard (see page 41).

The assignment of the digital audio input may also take place outside the connection wizard. With **TV** menu  $\rightarrow$  Connections  $\rightarrow$  Miscellaneous  $\rightarrow$  Assign digital audio input, the digital audio input can be assigned to the appropriate AV socket, see page 53.

#### Connecting a DVD player to the TV set

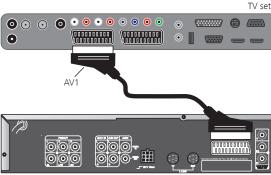
DVD player is registered with the connection wizard.

Switch off all equipment before connecting.

Connect the Euro-AV output of the DVD player to the AV1 socket of the TV set.

Use a fully equipped Euro-AV cable (available from your dealer) for this.

Connection example of a DVD player



DVD player

#### Playback from AV device

If the device supports Digital Link Plus on AV1/2 or if Immediate playback  $\rightarrow$  yes was selected in the connection wizard, the TV set switches automatically to the appropriate AV input after switching on the AV device

The AV input can also be called manually, however.



#### Call **AV selection**.





▲ Select DVD, OK switch over.

Start playback on the connected device.

#### Connecting a DVD recorder to the TV set

DVD recorder is registered with the connection wizard.

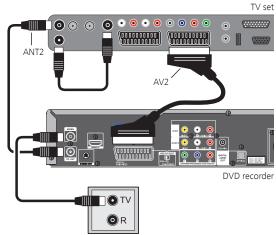
Switch off all equipment before connecting.

Connect the Euro-AV output of the DVD recorder to the AV2 socket of the TV set.

Use a fully equipped Euro-AV cable (available from your dealer) for this.

If you want to receive and record analogue stations with the receiver (tuner) built into the recorder, the recorder must be looped into the aerial cable. Connect the DVD recorder as shown in the connection example below.

Connection example of a DVD recorder



If you want to record DVB stations with an external recorder, the internal receiver of the TV set must be used (see "Timer recording with external devices" on page 55).

#### Playback from AV device



Call AV selection.





▲ ▼ Select DVD-REC, OK switch over.

Start playback on the connected device.

#### Connecting Camcorder/camera

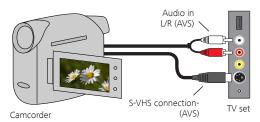
Camcorder/camera is registered with the connection wizard.

Switch off all equipment before connecting.

Connect the AV output of the camcorder to the audio input sockets L/R (white/red) and the S-VHS connection of the AVS sockets of the TV set.

Use the AV cable enclosed with the camcorder for this. Some camcorders only supply an FBAS signal instead of an S-VHS signal at the AV output. In this case use the AVS video input (yellow).

Connection example of a camcorder



#### Playback from AV device



Call AV selection.





▲ Select CAM, OK switch over.

Start playback on the connected device.

### Devices to the HDMI (DVI) connections



HDTV The HDMI connections (High Definition Multimedia Interface) allow the transmission of digital video and audio signals from a player, e.g. DVD player, DVD recorder, Blu-ray player, game console or Set-Top-Box via a single cable.

The digital video and audio data are transmitted without data compression digitally and therefore lose none of their quality.

Your TV set shows 24p films (see glossary on page 70) which are output by a player connected via HDMI, e.g. Loewe BluTech Vision, automatically in the original 24p format.

#### Film quality improvement (DMM) must be set to on (see page 21).

Digital video signals from a DVI player can be also be reproduced by the HDMI connection using a DVI/HDMI adapter cable. The sound must be piped in additionally.

HDMI and DVI both use the same copy protection method HDCP.

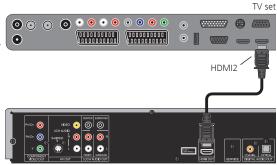
#### Connecting the device

It is not necessary to register HDMI devices with the connection wizard.

Switch off all equipment before connecting.

Connect the device with an HDMI cable (type A, 19-wire) to the HDMI1/DVI or HDMI2/DVI socket of the TV set.

Connection example of a Blu-ray player



Blu-ray player

If a DVI/HDMI adapter cable is used, the corresponding sound can be piped through the AUDIO IN1 (analogue) or AUDIO DIGITAL IN (digital) socket on the TV set (see also page 53).

#### Playback from the device



#### Call AV selection.





▲ ▼ Select HDMI1/DVI or HDMI2/DVI socket,

**OK** switch over

Start playback on the connected HDMI device. The best possible format for the picture is detected and set automatically.

#### Digital Link HD in CEC-capable devices

With Digital Link HD accessory equipment with CEC support (e.g. Loewe BluTech Vision) is controlled by the TV set. A concealed installation of the accessory equipment is also possible.

#### Operation of equipment with Digital Link HD

As long as a HDMI programme slot is selected, all remote control commands which can be processed by the device connected to the respective socket are passed on to it. The device can therefore be installed concealed and still be controlled.

■ Volume setting, sound off/on, listen mode and selection of picture format always act on the operation of the TV set.



#### On/off button:

**short:** Switch off TV set to the standby mode.

long: Switch off TV set and connected Digital Link HDcapable equipment to the standby mode (system standby).



#### TV button:

**short:** Switch back to the last viewed TV station. long: Switch Digital Link HD on/off temporarily.

#### Remote TV switch on via Digital Link HD

In the TV menu under Connections → Miscellaneous → Remote TV switch on via Digital Link HD, you can select whether the TV set is to switch on automatically from standby mode when a disc is played or a screen menu displayed on connected Digital Link HD-capable HDMI equipment.

### **Devices to the PC IN connection**

You can connect a PC to the **PC IN** socket for example and thus use the TV screen as a monitor.

When connecting a PC or accessory equipment to the PC IN socket of the TV set, set one of the following screen resolutions on the PC / accessory equipment first.

800 x 600	60 Hz	(SVGA)	1024 x 768 60	Hz (	(XGA)
1280 x 1024	60 Hz	(SXGA)	1360 x 768 60	Hz	(WXGA)
720 x 576i		(SDTV)	720 x 480i	(	(SDTV)
720 x 576p		(SDTV)	720 x 480p	(	(SDTV)
1280 x 720p		(HDTV)	1920 x 1080i	(	(HDTV)

#### Connecting the device

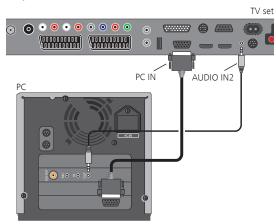
There is no need to register the device with the connection wizard.

Switch off all equipment before connecting.

Connect the device to the TV set's **PC IN** socket with a VGA cable.

Connect the analogue audio signal of the PC to the **AUDIO IN2** jack on the TV set with a stereo cable.

Connection example of a PC



Alternatively, connect the digital audio output of the PC or accessory equipment to the **AUDIO DIGITAL IN** socket of the TV set with a cinch cable.

The digital audio input can be assigned to the PC IN socket by TV menu  $\rightarrow$  Connections  $\rightarrow$  Miscellaneous  $\rightarrow$  Assign digital audio input, see page 53.

### Playback from the device



#### Call AV selection.





▲ ▼ Select PC IN socket, OK switch over.

#### Adapt geometry (only possible with certain signals)

This can be used to position the picture correctly and move the position of the picture (horizontally and vertically) so that it fills out the whole screen.



Call TV menu.



- ◆ Select Geometry,
- ◆ Select the desired setting,
- ◆ Make settings.

#### Set colour standard (only possible with certain signals)



Call TV menu.



- ◆ Select Picture.
- ▼ go to the menu line below.
- ◆ Select and set Colour standard:

RGB or Ycc / Ypp

The colours will not be shown correctly if the wrong standard is set.

### **Devices to the Component IN connection**



**HDTV** DVD players/recorders or a Set-Top-Box with Component Video connections can also be connected to the Cb/Pb Cr/Pr Y sockets (SD/HD-COMPONENT) of the TV set instead of to the EURO-AV sockets.

The connecting cable with three cinch plugs each transfers the picture information with a better quality than a EURO-AV cable. You need another cable for the sound transmission.

#### Connecting the device

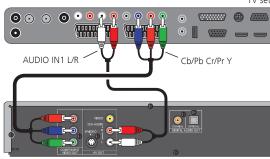
Device to COMP. IN is registered with the connection

Switch off all equipment before connecting.

Connect the Component Video outputs of the external device by a triple cinch cable to the Cb/Pb Cr/Pr Y sockets of the TV set.

Connect the analogue audio outputs of the external device to the AUDIO IN1 L/R sockets of the TV set by a dual cinch cable

Connection example of a Set-Top-Box



Set-Top-Box with COMPONENT OUT

Alternatively, connect the digital audio output of the external device to the AUDIO DIGITAL IN socket of the TV set with a cinch cable

The digital audio input can be assigned to the COMP. IN socket by **TV menu** → **Connections** → **Miscellaneous** → **Assign** digital audio input, see page 53.

#### Playback from the device



#### Call AV selection.





- ▲ ▼ Select COMP. IN socket. **OK** switch over.
- Adapt geometry (only possible with certain signals)

This can be used to position the picture correctly and move the position of the picture (horizontally and vertically) so that it fills out the whole screen.



Call TV menu.



- ◆ Select Geometry,
- ◆ Select the desired setting,
- ◆ Make settings.

### Sound components wizard

The sound components wizard helps you to configure the components used to play the TV sound.

Depending on what you want to use, active speakers, speaker systems, Loewe Individual Sound Projector and analogue and digital HiFi/AV amplifiers can be configured.

The sound components wizard is preset to playback via TV speakers at the factory.

If a Loewe Preceiver Auro has been connected to the TV set via link cable, you can only select between **TV speakers** and **Auro** in the sound components wizard.

#### **Integrated Dolby Digital Decoder**

Your TV set is equipped with an integrated Dolby Digital Decoder. This system has been introduced to the DVD video range and digital TV stations can also broadcast in digital multi-channel sound.

For playback of 5 audio channels the surround sound is reinforced by the deepest frequencies from the subwoofer channel (SUB), (5.1 reproduction = 5 audio channels and 1 subwoofer). All 5 audio channels are reproduced with the full frequency range from 20-20,000 hertz and generate the original theatre effect.

The Dolby Digital Decoder also decodes dts, MPEG and the analogue Dolby Pro Logic and Dolby Pro Logic II signals, regardless of whether the audio signal is transmitted by an external device or received by the TV set.

DVDs or CDs with PCM coded audio format are also decoded by the Dolby Digital Decoder. The CD/DVD player must be connected via a coaxial, digital connection to the digital input **AUDIO DIGITAL IN** for this (see page 53).

The audio signals decoded by the Dolby Digital Decoder are output via the **AUDIO LINK** interface. You can connect a speaker system such as the Loewe "Individual Sound" (see page 48) or active speakers (see page 49) to the **AUDIO LINK** interface and configure these with the **sound components wizard**.

Settings for speaker systems and active speakers which are connected via the **AUDIO LINK** interface to the Dolby Digital Decoder of the TV set:

- Register speaker (system) or active speaker.
- Setting of the lower limit frequency of the speakers.
- Setting of the distances between listener and speakers.
- Level settings for the speakers.
- Setting of the phase position for the subwoofer channel.

All data and selection possibilities which refer to the TV speakers in the course of the sound components wizard are only relevant when TV speakers are connected.

### TV speakers

No TV speakers are included in the scope of delivery for the "Individual Compose" TV set. Two speakers (min 4 ohm / min. 20 W sinus) can be connected via the speaker connections (screw terminals) of the TV set.

The Loewe "Stereospeaker I Compose" available as an accessory are ideal for this. These can be fixed directly to the TV set or separately to the wall. When fixing the speakers directly to the TV set, the side speaker connections (exclusively for "Stereospeaker I Compose") behind the trim are used. In the case of separate wall assembly, the speakers are connected to the screw terminals. See installation instructions "Stereospeaker I Compose".

Speakers must never be connected simultaneously to the side connections and to the screw terminals.

#### Connecting speakers to the screw terminals

To connect the speakers, switch the TV set off at the mains switch and pull out the mains plug.

You have connected and laid out the connecting cables to the speakers.

Remove the rubber band fixed as a transport protection (see figure). Turn the 4 screw terminals anti-clockwise about 2 or 3 turns. This frees the connection openings for the connecting cables of the speakers. Do not loosen the screw terminals more than necessary. They could fall down and get lost.

Make sure no bare cable ends can get inside the device when connecting. Avoid short-circuits between the individual screw terminals and between the screw terminal and the support plate.

Push the connecting cables (max. 1.5mm²) of the speakers under the respective same coloured screw terminal (red to red, black to black). See also the printed connection designations of the speakers right (Right) and left (Left) and the characters "+" equal red and "-" equal black (see figure).

Make sure that the sheaths of the connecting cables are not clamped accidentally as well.

Tighten the screw terminals clockwise.



Remove transport protection



Attach connection cable

# Speaker system Loewe Individual Sound on the Dolby Digital Decoder of the TV set

#### Setup

The arrangement of speakers and TV set can look like the illustration below:

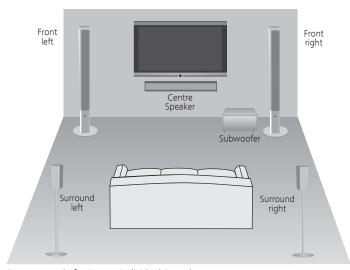
The front and surround speakers should be installed symmetrically to the TV set and to your sitting position.

You can place the subwoofer anywhere on the floor. We recommend placing it in front asymmetrically next to the TV set.

If a centre speaker is used, it should be placed centrally below the TV set.

For the settings in the sound components wizard enter the distances of the centre speaker, and the front and surround speakers to your sitting position. This guarantees a natural spatial image of the sound.

- If you have connected speakers directly to the TV set, you can use these as front or centre speakers depending on the setting in the sound components wizard.
- If you have not connected any speakers directly to the TV set, the two front speakers and the centre speaker (Centerspeaker I Compose) are connected to the subwoofer of the Individual sound system.



Setup example for Loewe Individual Sound

#### Connecting

Switch off all devices before connecting.

Subwoofer **without AUDIO LINK** interface (cable represented by grey, dotted line):

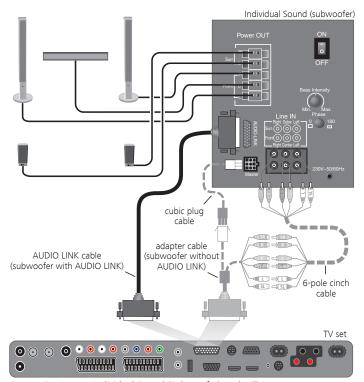
Plug the adapter cable to the **AUDIO LINK** interface of the TV set. Connect the cinch connections of the adapter cable to the 6-pin cinch connections of the subwoofer. Use the 6-pole cinch cable provided with the subwoofer for this.

The cubic plug cable connects the master connection on the subwoofer to the cubic plug of the adapter cable.

The adapter and cubic plug cable are available from your dealer (see Accessories, page 68).

#### Subwoofer with AUDIO LINK interface:

The subwoofer is connected to the TV set via the **AUDIO LINK** interface. Use the **AUDIO LINK** cable provided with the subwoofer.



Connecting Loewe Individual Sound (Subwoofer) to the TV set

# Connecting other speaker systems or active speakers to the Dolby Digital Decoder

If you want to use another similar speaker system or active speakers, you can connect these to the **AUDIO LINK** interface of the TV set with an adapter cable.

A comparable speaker system is connected in a similar way to that described above for "subwoofer **without AUDIO LINK** interface".

The adapter cable is available from your dealer (see Accessories, page 68).

#### Connecting active speakers

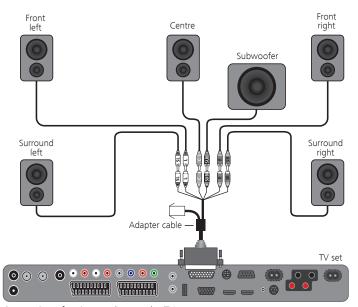
Switch off all devices before connecting.

Plug the adapter cable into the **AUDIO LINK** interface of the TV set. Connect the cinch connections of the adapter cable to the connections of the corresponding active speakers.

The cinch connections of the adapter cable are labelled:

R for Front right L for Front left SL for Surround left C for Centre SUB for Subwoofer

The connections on the adapter cable are preamplifier outputs. Therefore, only active speakers may be connected directly to the adapter cable.



Connection of active speakers to the TV set

### Adjusting the speaker system

#### Calling the sound components wizard

In normal TV mode, without other displays.



Call TV menu.



- ◆ Select Connections,
- ◆ Select Sound components,
- **OK** calls the sound components wizard.

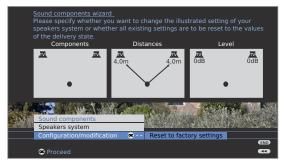


#### Sound playback via ... speakers system

Enter here that you want to hear the TV sound over a speaker system. If you connect active speakers, please use the setting **Speakers system**.



- ▼ ▲ Mark Speakers system,
- OK to continue.

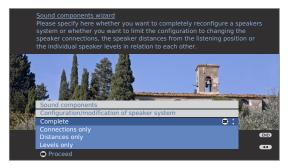


If nothing has been set yet, the factory settings or otherwise the last set values are displayed.

If you want to set up or change a speaker system:



- ◆ Select Configuration/modification,
- **OK** call selection.



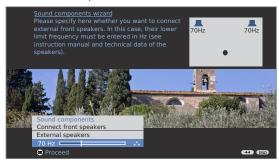


- ▼ ▲ Select Complete,
- **OK** continue to connect and set the **front speakers**.





- ◆ Select External speakers,
- ◆ set the lower limit frequency of the front speakers in 10 Hz steps.



- Select the start value of the frequency response of the speakers for the right setting (e.g. 50Hz for the specification "Frequency response 50-20.000Hz"). See the technical data of the speakers for the value.
- You can replace the external front speakers by the TV speakers if necessary. In this case, select TV speakers. Then transmit the sound of the front speakers.



**OK** continue to connect and set the surround speakers.

- ◆ Select **yes** for external speakers.
- If no surround speakers are connected, these can be simulated using the front and centre speakers.
- ▼ Go to the menu line below and
- set the lower limit frequency of the surround speakers in 10 Hz steps.
- Select the start value of the frequency response of the speakers for the right setting.



**OK** continue to connect and set the **centre speaker**.

- Select whether the TV speakers or an External speaker is to reproduce the centre sound or no if no centre speaker is connected.
- If no centre speaker is connected, the front speakers also transmit the centre sound parts additionally.
- for External speakers or TV speakers go to the menu line below and
- ◆ set the lower limit frequency of the centre speaker in 10 Hz steps.
- Select the start value of the frequency response of the speakers for the right setting.



**OK** continue to connect the **Subwoofer**.

- ◆ yes is the selection for subwoofer.
- If no subwoofer is connected, the front speakers additionally transmit the sound parts intended for the subwoofer as far as possible.



OK continue to set the Distance to left front speaker.

Measure the distances from your listening position to the front, surround, and centre speakers respectively. The Dolby Digital Decoder calculates the delay times for the speaker signals from these so that they reach the listener simultaneously.





 Set the distance between the left front speaker and your listening position in 10 cm steps.

**OK** continue respectively to the other speakers and

- ◆ adjust the distance.
- After setting the distance for the centre speaker ...



**OK** continue to **Adjust speaker level**.





- ◆ Adjust the volume for each speaker.
- ▼ ▲ Select speakers manually.
- For balanced audio reproduction all speakers should be set at the same volume level. A noise signal will be reproduced automatically on each speaker in succession. Adjust every speaker to equal perceived volume from your listening position.



**OK** continue to **Subwoofer phase**.



Switch to a station with music with P+/P- or start playback with music on a DVD player.



◆ Test both values (0° and 180°) and select the one with which you get a clearer bass reproduction from your listening position.

**OK** to confirm the setting and exit the wizard.

This ends the sound components wizard for connecting and setting up a speakers system.

### **Connecting audio amplifiers**

The sound components wizard permits configuration of different audio amplifiers (stereo amplifiers, surround amplifiers, analogue or digital) with different digital audio formats (Dolby Digital, dts, MPEG, and stereo/PCM). See the operating manual of the audio amplifier for more information.



#### Call TV menu.



- ◆ Select Connections.
- go to the menu line below.
- ◆ Select Sound components.
- **OK** calls the sound components wizard
- ▼ ▲ Mark the HiFi/AV amplifier.



#### OK Proceed

◆ Select whether the sound is to be transmitted digitally or analogue to the the amplifier.

Continue, depending on the amplifier, see right column.

#### Explanations of the setting possibilities:

HiFi/AV Select setting if an amplifier is connected and your TV set amplifier does not have any TV speakers connected.

HiFi/AV Select setting if an amplifier is connected and your TV set amplifier or TV has TV speakers connected. In the sound mode selection speakers the sound reproduction can then be switched back and (switchable) forth between the amplifier and the TV speakers.

Sound formats Specify sound formats which can be decoded with the digital amplifier (see operating manual of the used amplifier).

Type of Select either stereo or surround amplifier. amplifier

TV loudsp. as For every connected surround amplifier, select whether centre speaker the TV loudspeakers are to be used as centre speaker.

> If so, establish a connection between the centre output of the amplifier and the centre input of the TV set AUDIO **IN1 C** with a cinch cable.

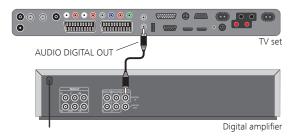
> Attention: Do not use the centre speaker connection of the amplifier, use the centre pre-amp output instead!

#### Connecting digital audio amplifiers

Continuation of the left column above ...

For digital audio transmission: Select ves.

Connect the digital audio output of the TV set AUDIO **DIGITAL OUT** with the digital audio input of the amplifier via a cinch cable:



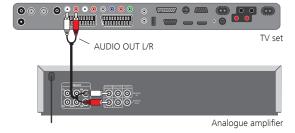
Sound formats, amplifier type and other settings, see explanations of the setting possibilities (left hand column).

#### Connecting analogue audio amplifiers

Continuation of the left column above ...

For digital audio transmission: Select no.

Connect the analogue audio output of the TV device AUDIO OUT L/R via a stereo cinch cable to the analogue audio input of the amplifier:



For selecting the amplifier type and making other settings, see explanations of the setting possibilities (left hand column).

### Assignment of the digital audio input

In order to be able to hear the digital sound of an external device connected to an AV input, an AV input can be assigned to the digital audio input socket **AUDIO DIGITAL IN**. When switching to this AV input, the digital audio signal applied to the **AUDIO DIGITAL IN** input is passed on to the integrated Dolby Digital Decoder and the digital audio output socket **AUDIO DIGITAL OUT**. You will then hear the digital sound of the assigned AV input instead of the analogue sound if available.

#### Connecting devices to the digital audio input

For the digital audio playback from an external device, e.g. the DVD player, you have to feed the digital audio signal to the TV set.

The external digital audio signal can be played back via the integrated Dolby Digital Decoder in the TV set, via an externally connected digital audio amplifier, Loewe Individual Sound Projector or Loewe Auro.

If an external audio amplifier or Loewe Individual Sound Projector is used, this must be registered in the sound components wizard (see page 52).



#### Call TV menu.



- ◆ Select Connections,
- ◆ Select Miscellaneous,
- ◆ Select Assign digital audio input,
- ◆ Select AV input.



To connect a DVD player to the digital audio input of the TV set for example, connect the digital output socket of the DVD player (DIGITAL OUT) via a cinch cable to the **AUDIO DIGITAL IN** socket on the TV set.



DVD player

The DVD player is already registered at AV1 in the connection wizard at the factory.

If new devices are connected and registered in the connection wizard, the digital audio input **AUDIO DIGITAL**IN is assigned in the connection wizard (see page 41).

### Audio connection in HDMI (DVI) devices

#### External devices with DVI connection

If an external device with DVI interface is connected via a HDMI/DVI adapter to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set, you can connect the digital sound of the external device to the digital audio input socket **AUDIO DIGITAL IN**.

The assignment of the digital audio input to the corresponding HDMI socket of the TV set takes place as described in the column on the left.

If you want to use the analogue sound of the external device, connect it to the **AUDIO IN1** socket.

#### External devices with HDMI connection

If external devices with HDMI interface are connected to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set, no assignment of the audio input is necessary because the digital transmission of picture and sound takes place via one connection in HDMI.

### RS-232C interface

You can connect either the Loewe Individual Sound Projector or a home network system of different manufacturers (e.g. AMX, Crestron) to your TV set via the RS-232C interface.

Please consult your dealer for configuration of the RS-232C interface and further information about the different home networking systems.

### The direct way to record

You can programme timer recordings via the integrated Digital Recorder or connected recorders on the TV set. The recording wizard is integrated at several places for programming a recording. Further information about recording with the Digital Recorder can be found in a separate operating manual.

#### Programming a timer recording with the EPG

You are in EPG mode; if not, press the **EPG button**.





Mark the desired broadcast.



Red button: Call Timer data.

Change or confirm **Timer data** as necessary.

#### Programming a timer recording via teletext

You are in teletext mode; if not, press the **TEXT button**.





Call the programme pages of the current station. Change preset page numbers, see page 33.





• Green button: Go to the appropriate page.



 Select desired broadcast. OK calls Timer data.

Change or confirm **Timer data** as necessary.

#### Enter timer data

Timer data are displayed after selecting the programme you want to record. You can change these before confirmina.





- OK confirms Timer data or change if necessary:
- ◆ Select Recorder.
- ▲ ▼ Select **Date** Enter the recording date with the **numeric buttons**.
- ▲ ▼ Select Recording time. Enter the recording time with the **numeric buttons**.



- ▲ Select VPS.
- ◆ Set yes/no.
- ▲ Select Recording type.
- ◆ Set once only, Mon-Fri, daily, weekly.
- **OK** Confirm the **Timer data**.

### Setting possibilities in the Timer data menu:

Recorder Selection of the connected/integrated recorder.

Date Day of recording.

Recording time Time of recording.

VPS Use VPS data, yes/no. (Some stations do not broadcast a VPS signal).

Recording type once, Mon-Fri, daily or weekly.

In timer recordings via EPG, Serial can also be selected.

- If you use an external recorder without Digital Link Plus, you have to select the recording source in the recorder (e.g. AUX). This is also the case when DVB programmes are to be recorded. The TV's receiver is used.
- If you use an external recorder with Digital Link Plus or a comparable system (e.g. P50), this is controlled automatically.

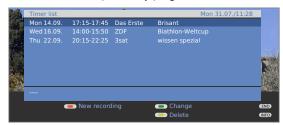
#### Programming the timer with the timer overview

A timer recording can also be programmed manually.



#### Call Timer list.

You see a list of all previously programmed timers:



• • • Green button: Change timer recording.

Yellow button: Delete timer recording. **Red button:** New timer recording.

#### Programming the timer manually

The timer list is open.



• Red button: Call the recording wizard.





◆ Select Manual, OK call Station selection.

◆ ► ► Select station. OK calls the Timer data

For timer data input, see page 54.

After confirming the timer data, the new recording is transferred to the timer overview.

#### Explanation of the setting possibilities of the recording wizard:

Via EPG Timer programming via EPG (see Programming a timer recording with the EPG, page 54).

Via Teletext Timer programming via Teletext (see Programming a timer recording via Teletext, page 54).

Manual Programming timer manually (see above).

### Timer recording with external devices

It is not possible to record HDTV broadcasts with external devices. Use the internal Digital Recorder for this.

#### Recorder with Digital Link Plus

If you use an externally connected recorder with Digital Link Plus or a similar system, the TV set and connected recorder exchange data (e.g. compare station lists TV set/recorder or timer data of analogue stations).

Please consult the operating manual of your recorder to find out if your recorder is Digital Link Plus compatible. In addition use only Euro AV cables for the connection between TV set and recorder.

#### Analogue stations

The timer data are transmitted automatically from the TV set to the recorder after programming is complete. (For DVD recorders in addition the recording quality SQ or EQ is also transmitted.) The recording then is controlled by the recorder and the recorder tuner is used for reception of the programme.

The recording data are not saved in the timer overview of the TV set. Consequently if you want to change or delete the timer data then you must do so on the recorder.

#### Digital stations

If you want to record digital stations with an externally connected recorder, then the DVB tuner is used and the TV device takes over control of the recorder. Then the station on the TV set is locked during the timer recording. It is not possible to switch over to another DVB station.

#### Recorder without Digital Link Plus

If the programmed timer cannot be transmitted to the external recorder (no Digital Link Plus) but supports Digital Link (Loewe-own system), the TV receiver is always used.

Digital Link must be switched on on the recorder. Read the operating instructions of your Loewe recorder.

In addition use only Euro AV cables for the connection between TV set and recorder.

#### Analogue and digital stations

You can control the recording from the TV set. The recorder must be set manually to the AV input, to which the TV device is connected. Then the station on the TV set is locked during the timer recording. It is not possible to switch over to another station.

### Copy protection

Copy-protected programmes will not be output on the EURO AV sockets for legal reasons.

### **PhotoViewer**

You can view photos in the standard JPEG format stored on a USB stick or a memory card in a card reader. You can also collect photos in a slide show.

#### Connecting

Certain USB memory media may not be supported by this set under some circumstances

Plug a card reader (via a USB cable) or a USB stick into the USB port on the TV set (see pages 5 and 6).

Use a USB extension cable (available from your dealer) for the USB stick if the USB socket is difficult to access (e.g. wall mounting) or the USB stick is too big to be plugged in.

To mount the cover, break out the cable opening in the cover flap.

#### Starting the PhotoViewer

No photos can be displayed which are available in progressive JPEG

A memory card or the USB stick should contain data in standard JPEG format with the file extension ".jpg".



Call the **Assist+** menu



▲ Mark PhotoViewer.

**OK** continue

If only one memory medium is available, the **PhotoViewer** is started. You see the first page of the photo overview (see right column).

If several media are available, select with



◆ memory medium and then with

OK start PhotoViewer

### **Ending the PhotoViewer**

Remove used memory medium.

Or:



Press END button (when photo list is displayed).

Or:





Press TV or RADIO button.

Or:



Press the **ASSIST button** and call another function in the Assist+ menu

#### Viewing photos

The photo overview is displayed.





▲ ▼ ◀ ▶ Mark a photo, page with P+/P- if necessary. **OK** Display as full picture.



- ▶▶
- **▶** or **P+** Next photo.
- **⋖**4
- ← or P− Previous photo.
- (END)

**END:** Show/hide photo information.





Yellow button: Zoom photo.

Enlargement factors x2, x4, and x8 are possible. Press the button several times.

The 4th press returns you to the original size.



Select photo section in zoom mode with ▲ ▼ ◀ ▶ . Exit the zoom mode to the photo overview with **OK** or

the STOP button



- ◆ Rotate picture by 90 degrees to the left/right.
- Photos displayed in a slide show can only be rotated in the Pause mode for viewing.



**OK** or **STOP button**: Back to the photo overview.

#### Open folder

Folders will only be displayed if they were created on the memory card / USB stick.



▲ ▼ ◀ ▶ Mark a folder in the photo overview. **OK** Open folder.

The photos in this folder are displayed.



#### Marking photos for slide show

Mark the photos that you want to display in a slide show.



▼ 

 Navigate to a photo.







• • • Blue button: Mark photo for slide show.

#### Starting a slide show

- No photos marked: All photos of the folder that was just opened will be displayed.
- Photos marked: Only marked photos will be displayed.



PLAY button: Start / continue slide show.

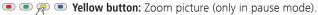


**OK** calls the photo overview.



PAUSE button: Pause / continue the slide show.







- ◆ Protate picture to left/right in 90° increments (only in pause mode).
- → or P+ Next photo.
- 44 ← or P− Previous photo.



STOP button: End slide show.

#### Calling the PhotoViewer menu

In the PhotoViewer menu you can make picture settings and select the memory medium.

The photo overview is displayed.



#### Call PhotoViewer menu.



#### Explanations of the setting possibilities:

Go to... Within the folder select a photo directly or go to the beginning or end of the folder.

Picture display With **Optimum size** the photo is reduced or enlarged in size so that the screen is optimally filled.

> With **Original resolution** each pixel of the photo represents one pixel on the screen. If the photo resolution is higher than that of the screen, then portions of the photo will be cropped.

Picture change Set the display time per photo in a slide show to between 3 and 60 seconds.

> The loading time of the photo depends on the photo size, the number of saved files and the transmission speed of the memory medium. Therefore a photo change may take longer than specified.

Picture There is a choice of four different photo transitions for crossovers changing slides. You can also have the photo transitions run in sequence.

Photo info Display additional information about the picture: Recording time and date, resolution and picture size.

Picture settings Set picture adjustment, contrast, colour intensity, colour temperature, brightness, sharpness, DNC.

> Sound Select whether or not the previously heard sound is to be heard during the PhotoViewer operation.

Select memory Select memory medium from which the photos are to be medium reproduced. This menu item is only displayed if at least two memory media are available.

### MusicBox

You can play music files in MP3 format which are saved on a USB stick or a memory card in a card reader. You can also collect the music titles in play lists.

#### Connection

- Certain USB memory media may not be supported by this device.
- Your memory medium should not exceed a total capacity of 8 GB. Larger memory media may not be supported. The read-in time of the memory medium depends on the stored data volume.
- The file names must have the extension ".mp3". Alternative specifications such as MP3 Surround or similar are not supported.

Plug a card reader (with a USB cable) or a USB stick into the USB port on the TV set (see page 5 and 6).

#### Starting the MusicBox



Call Assist+ menu.



▲ ■ Mark MusicBox.

OK continue.

If there is only one memory medium the **MusicBox** is started with the MusicBox list (see right column).

If several media are available select memory medium with



◆ and then with

OK start MusicBox

#### **Ending the MusicBox**

Remove used memory medium.

Or:



Press **END button** (while status window is displayed)





Press TV or RADIO button





Press the **ASSIST button** and call another function in the Assist+ menu.

If the MusicBox is ended during playback, the MusicBox remembers the appropriate place in the title. If the TV set is not switched off or the memory medium removed in the meantime, the playback continues at this point the next time the MusicBox is called. The MusicBox then starts immediately on the MusicBox status window (see right column).

#### Select/play music

After starting the MusicBox, the content of the memory medium, the MusicBox list, is displayed.





- ▲ Mark folder, scroll with P+/P- if necessary,
- **OK** open selected folder.

You see the music files (titles) and/or sub-folders in the opened folder.

One folder level back:

Select \_\_\_... and press **OK**.





- ▲ ▼ Mark title, scroll with P+/P- if necessary,
- **OK** play marked title.

Then the MusicBox status window opens with information about the played title.

If the file contains additional information (ID3 tags), the title, singer, album title etc. are displayed.



#### Functions of the control buttons

Title is played.

PLAY button:

**STOP button:** Once: resume stop, twice: stop.

After resume stop: Continue playing at place where playback was interrupted.

After stop: Start playing the first title according to the set

For playback: Start the current title from the beginning. For pause: Continue playback.

PAUSE button: Pause / continue playback.

Short: next title, long: wind.

← Short: previous title, long: rewind.

#### Settings in the MusicBox status window

**>>** 

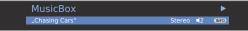
44

INFO

Red button: Switch off TV screen.

Press red button, INFO or OK to switch back on.

Reduce info window to one line / maximise again.





### MusicBox - Browse/sort

You can browse or sort the contents of your memory medium with the coloured buttons according to certain criteria (file names, titles, artists, albums).

The MusicBox list is displayed.



The MusicBox overview is sorted according to Files at the beginning. The sorting is based on the file names of the music files regardless of their ID3 tags.

▲ ▼ Select file/folder and play/open with **OK**.



#### Sort according to artists



• Green button: Show Artists.

All music titles are sorted alphabetically according to artists (ID3 tags).







▼ Mark artist, scroll with P+/P- if necessary or enter the initial letter with numeric buttons like a mobile phone keypad (see page 15).



#### OK Call Albums by ...

The albums of the selected artist are displayed sorted alphabetically.

- ▲ ▼ Mark album and select with **OK**.
- ▲ ▼ Select title in album and play with
- **OK** in MusicBox status window.



#### TEXT: Call Titles by ...

The titles of the selected artist are displayed sorted alpha-



- ▲ ▼ Select title and play with
- **OK** in MusicBox status window.

#### Sorting according to titles



Yellow button: Show All Titles.

All available titles are sorted alphabetically by ID3 tags and displayed with the appropriate artist.



- ▲ ▼ Select title and play with
- **OK** in MusicBox status window

#### Sorting according to albums





### • • • Plue button: Show All Albums.

All available albums are sorted alphabetically by ID3 tags and displayed with the appropriate artist.



- ▲ ▼ Mark album and select with **OK**.
- ▲ ▼ Select title in album and play with
- **OK** in MusicBox status window.

#### Sorting according to files



#### Exit sorting



Exit search/sorting. The new sorting is retained in the MusicBox list.

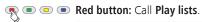
### MusicBox - Play lists

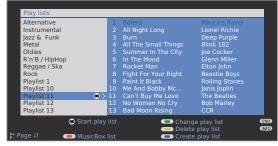
You can save and call your music titles in play lists. Change and create play lists as you like.

The play lists are created on the memory medium in the common M3U format for simple exchange with the PC.

#### Call / play play list

The MusicBox list is displayed.





In the play list overview you see the created play lists on the left hand side of the dialogue. On the right next to it you see the music files in the marked play list.



- ▲ ▼ Select play list, scroll with P+/P- if necessary.
- **OK** The play list is played in the MusicBox status window starting with the first title. The name of the play list is displayed after the title.



- **OK** The play list is displayed again.
  - Change from list selection to title selection.





- **OK** the play list is played in the MusicBox status window from the marked title.

#### Create new play list / add title

- The play list overview is displayed.
- List selection (left column) must be selected. If not, change the column with 4.



#### Blue button: Call Create play list.

A new empty play list is created. The file selection is visible on the left.





- ▲ ▼ Mark title/folder, scroll with P+/P- if necessary,
- **OK** Adopt marked title to play list or open marked folder.
- - Yellow button: Adopt marked folder to play list.

#### Change play lists

You can adapt the play lists as required. It is possible to move the titles in the play lists or remove them from the list. The play list can be renamed or deleted completely.

The play list overview is displayed.

• Green button: Call Change play list.

▶ Go to the page of the play list (right column).



🖲 Ŗ 🖭 🗨 **Green button:** Select play list to be changed.

#### Rename play lists

Play list (right column) must be selected. If not, change column with ▶.



• • • Plue button: Starts Rename play list.



**Numeric buttons:** Enter new name (same procedure as for rename station, see page 26).



**OK** Save new name.

#### Move titles in the play lists / change order



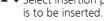


▲ ■ Mark title to be moved.



Yellow button: Starts Move title.

▲ Select insertion position at which the marked title



**OK** Move title

#### Remove titles from play lists / clear play list

Play list (right column) must be selected.



▲ ■ Mark title to be deleted.

 $\mathbf{OK}\,$  Remove marked title from play list.

Or:



**Red button:** Starts **Clear play list**.



#### Delete play list from memory medium





▲ ▼ Mark play list to be deleted.

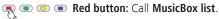


Yellow button: Starts Delete play list.

**OK** Confirm delete play list.

#### Exit play list overview

The play list overview is displayed.







**END:** Call MusicBox status window.

### MusicBox - Menu

In the MusicBox menu you make sound settings, can select the memory medium and set the repeat mode.

MusicBox must be activated.



Call MusicBox menu.



#### Explanations of the setting options:

Select Select memory medium from which the audio files are to memory be used. This menu item is only displayed if at least two medium memory media are available.

Sound The settings correspond to the sound settings in TV mode (see page 20).

Repeat Titles can be repeated in two ways:

#### Title 'O:

Only the played title is repeated.

#### Folder or Play list ::

Only the titles from the currently selected folder or, if play list is activated, the current list are repeated.

Repeating is endless until the function is switched off in the MusicBox menu.

The appropriate symbols for the repetition are displayed in the top right of the info window.



### **Operating Loewe equipment**

#### Using the remote control for the TV mode of the TV set

Press the **TV button**, the display above it will light for approx. 5 seconds.

#### Using the remote control for a recorder

Press the **REC button**, the display above it will light for approx. 5 seconds.

#### Using the remote control for a DVD player

Press the **DVD button**, the display above it will light for approx. 5 seconds.

#### Using the remote control for the radio mode of the TV set

Press the **RADIO button**, the display above it will light for approx. 5 seconds.

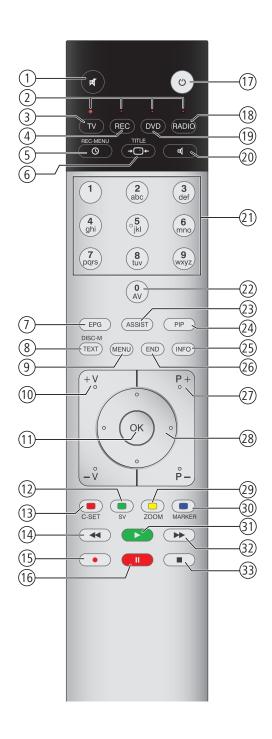
As long as a button is pressed, the display of the selected operating mode lights up (TV - REC - DVD - RADIO). This allows you to check which operating mode the remote control is set to every time you press a button.

#### Setting the remote control to other Loewe devices

The specified button combination must be kept pressed (for approx. 5 s) until one of the LEDs flashes twice.

Device	Button combination
Loewe TV	TV + (7 pqrs) *
Loewe Centros 1102 / 1172	REC + 1
Loewe Centros 2102 HD / ViewVision	REC + 2 *
Loewe ViewVision DR+ / DVB-T	REC + 3
Loewe ViewVision 8106 H	REC + O
Loewe Auro 2216 PS / 8116 DT	DVD + (4 ghi) *
Loewe Xemix 6222 PS	DVD + o jkl

The devices marked by  $oldsymbol{\star}$  are preset in the remote control supplied with the TV set.



#### Functions for the Loewe DVD player (Auro 2216 PS, 8116 DT)

- (1) Sound off/on
- (2) LED indicator for current operating mode
- (3) Switch over to operate TV set
- (4) Switch over to operate Recorder
- (5) Sleep timer
- (6) Set TV picture format; RADIO: Mono/Stereo
- (7) DISC: Repeat; RADIO: display RDS name/frequency of station
- (8) DISC: User interface of loaded DVD
- (9) Show/hide menu; MENU: close window
- (10) **V**-/**V**+ Volume down/up
- (1) DISC: Title/Chapter overview; RADIO: station table MENU: confirm menu selection
- (12) Green button: Title/Chapter selection
- (13) Red button: DISC: camera position
- (14) DISC: short: beginning of chapter/title previous chapter; long: search back; RADIO: short: fine tuning back long: search back
- (15) no function
- (16) Pause; single frame; slow motion
- (17) Switch on/off on stand by
- (18) short: TV Radio Digital; long: Auro FM/AM-Radio
- (19) Switch over to operate Auro
- (20) Select sound format
- DISC: select chapter/title; RADIO: select stored station; MENU: enter digits
- (22) MENU: enter numbers or letters
- (23) DISC: Repeat A-B; RADIO: FM/AM-mode
- (24) Select external audio source
- (25) DISC: menu bar MENU: context help
- 26 DISC: Status display; RADIO: station table MENU: hide menu
- (27) P+/P- DISC: next/previous chapter; RADIO: station forward/back
- ② ► ▼ DISC: chapter up/down; MENU: select up/down;
  - ◆ DISC: search back/forward; MENU: select left/rigt
- 29 Yellow button: Zoom
- (30) Blue button: Set marker
- 31) Playback
- (3) DISC: short: next chapter/title; long: search forward RADIO: short: fine tuning forward; long: search forward
- 33 Stop

#### Functions for the Loewe DVD recorder (Centros 1202, 2102 HD, ViewVision DR+)

- 1 TV Sound off/on
- (2) LED indicator for current operating mode
- (3) Switch over to operate TV set
- (4) Switch over to operate Recorder
- 5 Timer recording menu; timer recording list menu
- (6) STOP: Title List; PLAY: Edit thumbnail; CARD: Photo-, Music-, Film-Mode ViewVision DR+: Timeshift Mode
- (7) STOP: Call AV selection (AV1-AV4,DV,TV) ViewVision DR+: PLAY: skip 15 Sec.
- (8) User interface of loaded DVD MENU: original / playlist
- 9 Show/hide menu
- 10 V-/V+ TV Volume down/up
- 11) Status display (TV, DVD)
  - MENU: confirm the menu selection
- (12) Green button: ShowView menu
- (13) Red button: new chapter marker
- (14) PLAY: press short: Start of current chapter/previous chapter; press long: search back; PAUSE: press short: slow motion back
- (15) Record
- (16) Pause /single frame
- (17) Switch on/off on stand by
- (18) TV Radio Digital
- (19) Switch over to operate DVD-Player
- (20) TV Sound menu
- 21) STOP: Select station directly MENU: enter numbers or letters
- ② MENU: enter numbers or letters ViewVision DR+: STOPP: Call AV selection
- ② Card Reader operation ViewVision DR+: "Home" menu
- (24) PIP (picture in picture)
- (25) Info; PLAY: menu bar
- (26) MENU: hide menu
- P+/P- PLAY: Next chapter; STOP: Select station up/down
- 28 MENU: select/set
- (29) Yellow button: Zoom
- 30) Blue button: DISC: short: Set marker; long: Marker search
- 31) Playback
- (32) PLAY: Press short: next chapter; Press long: search forward PAUSE: Press short: slow motion forward
- (33) Stop

### **Rotating the TV set**

Your TV set has a connection for a rotating stand control. If the set is mounted on a motorised Loewe stand, you can use the remote control to adjust it to your seating location accordingly.

- A motor unit is connected.
- In normal TV mode, without other displays.



◆ Rotate the TV set.

Do not place any objects in the rotation range of the TV set that could obstruct the rotation or that could be knocked over by the rotation movement.

#### Setting the range of rotation

You can specify the rotation range of the TV device (maximum +/- 40 degrees) by setting the maximum right and left stop position.



Call TV menu.



- ◆ Select Settings,
- ◆ Select Miscellaneous.
- go to the menu line below.
- ◆ Select Rotate TV,
- go to the menu line below.
- ◆ Select Basic adjustment,
- **OK** calls the basic adjustment.





#### Basic adjustment (right)

Turn your TV set as far to the right as the installation position of your set allows. This will be the maximum right rotation position in future.

**OK** confirms basic adjustment to right.





#### ◆ Basic adjustment (left)

Turn your TV set as far to the left as the installation position of your set allows. This will be the maximum left rotation position in future.

**OK** ends the basic adjustment.



Close the menu

#### Specifying the switch off position

This is where you specify the position that the TV will take when it is switched off. In order for the TV set to return to the determined switch-off position when switching it off, this must be activated (see below).



Call TV menu.



- ◆ Select Settings,
- ◆ Select Miscellaneous,
- ◆ Select Rotate TV.
- go to the menu line below.
- ◆ Select Set switch-off position,
- **OK** calls Set switch-off position.





◆ Set desired switch-off position. The TV set rotates in the process.

**OK** Save the set position as the switch-off position.



Close the menu.

#### Activating the switch-off position



Call TV menu.



- ◆ Select Settings,
- go to the menu line below.
- ◆ Select Miscellaneous,
- go to the menu line below.
- ◆ Select Rotate TV,
- go to the menu line below.
- ◆ Select Activate switch-off position,
- ◆ Select yes.



Close the menu.

If the TV set is switched off with the on/off key on the remote control or with the switch integrated in the display then it will turn to the defined switch-off position. When it is switched back on, it returns to the position last set.

# **Troubleshooting**

Problem	Possible cause	Remedy
All menus are displayed in the <b>wrong language</b> .	The menu language was set incorrectly.	Set the menu language: Press the INFO button in TV mode (Index). Mark the first key word and call it with OK. Then select the language and confirm it with OK.
In the <b>TV menu</b> , <b>Connections</b> cannot be called (displayed in grey).	A timer recording is in progress.	Wait until the timer recording ends or delete the timer recording (page 55).
The control functions of the Loewe Recorder and the <b>Timer</b> are not working or are not working properly	a) The Digital Link function is not activated or not possible in the recorder. b) EURO-AV cable is not connected. c) Recorder is not logged in.	a) Activate Digital Link in the recorder (see operating instructions of the recorder). b) Connect EURO-AV cable (page 43). c) Register recorder (page 40).
General problems when connecting <b>external devices</b> via an <b>AV input</b> .	a) The device is not logged in to the <b>connection</b> wizard or is connected differently from shown in the <b>connection diagram</b> .	a) In the connection wizard (TV menu → Connections → New devices/modifications) compare the connection diagram with the actual installation and connect as shown if necessary (page 40).
	b) The <b>AV standard</b> is set incorrectly. c) The <b>signal type</b> is set incorrectly.	b) Set the correct standard (page 17). c) Set the correct signal type (page 41).  If AV standard or AV signal is set to "Automatic" then this can cause errors to be detected with signals that do not comply with standards. In this case standard and signal must be set according to the information in the operating manual of the external device.
The <b>connection</b> of a <b>decoder</b> does not function or does not function properly.	a) The signal is not decoded because the correct decoder stations have not been selected in the <b>connection wizard</b> .  b) In decoder mode the sound is missing because the wrong decoder sound has been assigned in the <b>connection wizard</b> .	a) Follow the instructions in the connection wizard (TV menu → Connections → New devices/modifications) and select the appropriate decoder station (page 40). b) Follow the instructions in the connection wizard and select the right audio source (Decoder, TV oder Autom.) (page 40), see also the decoder manual.

# **Troubleshooting**

Problem	Possible cause	Remedy
Digital Link Plus does not work.	a) EURO-AV cable is not fully wired (pin 10 not wired).	a) Replace the EURO-AV cable.
	b) Some recorders can only adopt stations during the initial installation of the TV set.	b) Restore the recorder to the as-delivered state (see recorder's operating manual).
With <b>Teletext</b> various <b>character sets</b> are displayed incorrectly.	The wrong character set has been set in the Teletext menu.	Set the right character set: Select <b>Teletext menu</b> → <b>Settings</b> → <b>Character set</b> → <b>Standard</b> or the appropriate character set.
No sound via the external digital audio amplifier.	a) The external digital audio amplifier does not support the selected sound format (Dolby Digital, dts, MPEG).	a) Set PCM stereo on the DVD player in the sound selection. For DVB stations on the TV set switch to stereo in the status display (END) — language/sound selection (green button).
	b) TV set and external digital audio amplifier are not connected with each other.	b) Connect <b>AUDIO DIGITAL OUT</b> from the TV set to a <b>digital</b> input of the external digital audio amplifier and select the appropriate input to this.
The <b>picture</b> of a connected external recorder is visible but the <b>timer</b> cannot be called.	The device is not registered in the <b>connection</b> wizard or is connected differently from shown in the <b>connection diagram</b> .	In the connection wizard (TV menu → Connections → New devices/modifications) compare the connection diagram with the actual installation and connect as illustrated (page 40).
The <b>picture</b> of a connected external recorder is visible but the error message <b>no recorder available</b> is still output.	The device is not registered in the <b>connection</b> wizard or is connected differently from shown in the <b>connection diagram</b> .	In the connection wizard (TV menu → Connections → New devices/ modifications) compare the connection diagram with the actual installation and connect as illustrated (page 40).
Photos on the USB stick are not displayed correctly in the PhotoViewer or a "?" appears.	The photo is not available in a displayable format.	Convert photo file into a standard JPG format on the PC.

# **Technical data**

## **General data**

Туре	Individual 40 Compose Full-HD+ 100	Individual 46 Compose Full-HD+ 100	Individual 52 Compose Full-HD+ 100
Article number	67437xxx	67439xxx	67440xxx
Device dimensions without base (W x H x D) in cm	101.4 x 61.7 x 10.3	114.1 x 69.2 x 11.4	130.8 x 78.5 x 12.8
Weight (approximate) in kg	31.5	35.7	52.0
Display	FHD-LCD technology	FHD-LCD technology	FHD-LCD technology
Picture diagonal in cm/picture format	101 / 16:9	117 / 16:9	132 / 16:9
Resolution in pixels	1920 x 1080	1920 x 1080	1920 x 1080
Dynamic contrast ratio	10,000:1	10,000:1	10,000:1
Static contrast ratio	2,000:1	2,000:1	2,000:1
Viewing angle horizontal and vertical	178°	178°	178°
Power consumption (EN 62087)			
in operation (watt)	145	165	180
in standby (watt)	1,2	1,8	1,8
Ambient temperature (Celsius)	5° – 35°		
Relative humidity (non-condensing)	20 – 80%		
Air pressure	800 – 1114 hPa (0 – 2000 m above sea level)		

## **Electrical data**

Chassis designation:	L 2710
Power supply:	
Tuner:	VHF/UHF/cable/hyperband
Range:	45 MHz to 860 MHz
Station storage locations incl. AV and radio:	4000
TV standards:	B/G, I, L, D/K, M, N
Colour standard: S	ECAM, PAL, NTSC, NTSC-V, PAL-V (60 Hz)
Sound standard	Mono/Stereo/2-Ton/Nicam B/G, I, L
	Dolby Digital, Dolby Virtual Speaker, DTS
Audio nominal power (sine):	2 x 20 watt
Teletext:	TOP/FLOF Level 2.5
Page memory	2000
Digital teletext (only in UK / IRL with active N	

# **Connections (max. equipment)**

Commect	ions (max. equipmen	<b>-</b> /
Mains socket:		Supply voltage
EURO-AV 1	Video IN:	
		CVBS (VHS/8 mm)
	Video OUT:	CVBS (VHS/8 mm)
		Y/C (S-VHS/Hi 8)
	Audio IN:	L/R
	Audio OUT:	L/R
EURO-AV 2	Video IN:	Y/C (S-VHS/Hi 8)
		CVBS (VHS/8 mm)
		RGB
	Video OUT:	
		. Y/C, (only with SVHS Link Plus)
	Audio IN:	
	Audio OUT:	L/R

Jack 3.5 mm: Mini-DIN (AVS)	Video IN:	Y/C (S-VHS/Hi 8)
Cinch (yellow)	Video IN:	
Cinch (white/red)	Audio IN:	
2x IEC socket	75 Ohm/5 V/80 mA:	
2x F socket	75 Ohm 13/18 V/350 mA:	
2 x screw terminals	Speaker Right:	
2 x screw terminals	Speaker Left:	
Jack 3.5 mm	AUDIO IN2:	
Cinch	AUDIO IN max. 2Vrms:	
2 x Cinch	AUDIO IN1:	
2 x Cinch	AUDIO OUT (level depends on config	auration): I (white) / R (red)
Cinch	COMPONENT IN:	Ch/Ph signal
Cinch	COMPONENT IN:	
Cinch	COMPONENT IN:	
Cinch	AUDIO DIGITAL IN (SPDIF):	
Cinch	AUDIO DIGITAL OUT (SPDIF):	Digital audio
SUB-D	AUDIO LINK:	
SUB-D	PC IN:	PC/STB video signal
SUB-D	RS-232C:	serial interface
Mini-DIN	SERVICE:	Service/L-Link
Mini-DIN	CONTROL:	
2 x USB	USB 2.0:	Standard JPEG/MP3 files
2 x HDMI	Digital Video/Audio IN	
	Type A 19pole Standard 1.3:	
2 x CI-Slot	Common Interface	Slot for CA module

### **Accessories**

### **Accessories**

#### Trim:

With your Individual Compose device it is possible to replace the laterally attached trim (panels) to match the ambiance of your home. There are different surface structures or colours that can be selected for your device. Please contact your dealer in this regard.

Wood trim is a natural product. In this case UV light (strong sunlight) can cause slight discoloration.

#### Stereospeaker I Compose (2 pieces):

Add two stereo speakers to your Individual Compose which can be fixed directly to the TV set (not possible in Individual 52 Compose) or mounted separately on the wall.

#### Centerspeaker I Compose:

An external centre speaker is recommended for perfect spatial sound. It can be installed on a table stand or mounted on the wall. A visually attractive solution is the Center Floor Stand I Compose in which the loudspeaker is already integrated in the installation solution. The Centerspeaker I Compose can be combined with the Loewe Individual Sound System.

#### Loewe Individual Sound:

Your TV set can be perfectly supplemented with the Individual Sound speaker system. Numerous speaker combination possibilities with standing speakers, satellite speakers and a subwoofer can be implemented. Here as well it is possible to choose the colours of housing and trim.

#### Loewe Individual Sound Projector:

With the Loewe Individual Sound Projector you can easily enjoy digital Surround Sound without expensive installation and connection of several speakers. The Sound Projector is easy to set and operate.

#### Loewe DVD recorder:

The DVD recorders from Loewe are characterised by form and colour, which match Loewe TV sets, adapted user guidance and technology. Combined these devices form a system that offers many advantages.

#### Loewe Blu-ray Player:

With the Loewe Blu-ray Player "BluTech Vision" you are ideally equipped for the successor format to DVD. With the Loewe system integration you control BluTech Vision and your Loewe TV set simultaneously with the Assist remote control.

#### Cube i Rack:

The Cube i Rack is designed as a supplemental rack that can accommodate two peripheral devices such as DVD player and/or DVD recorder, as well as the subwoofer of the Loewe Individual Sound speaker system. If a subwoofer is not used then the Cube i Rack can accommodate up to four peripheral devices.

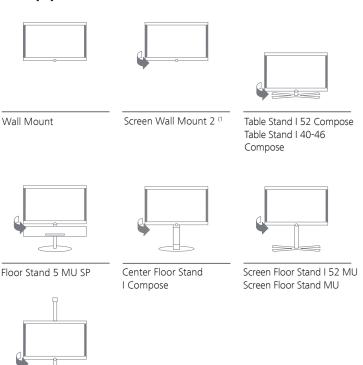
#### Adapter and cables:

AUDIO LINK adapter	1.5 m	Loewe order no. 89954.001
AUDIO LINK	1.5 m	Loewe order no. 89952.001
AUDIO LINK	6 m	Loewe order no. 89952.002
AUDIO LINK	10 m	Loewe order no. 89952.003
Cubic plug cable	1.5 m	Loewe order no. 90418.930

### **Accessories**

### **Setup possibilities**

Screen Lift Plus (1



#### Individual 52 Compose Full-HD+ 100

- Wall Mount (delivery status)
- Table Stand I 52 Compose
- Floor Stand 5 MU SP (2
- Center Floor Stand I Compose
- Screen Floor Stand I 52 MU

#### Individual 46 Compose Full-HD+ 100

- Wall Mount (delivery status)
- Screen Wall Mount 2 (1
- Table Stand I 40-46 Compose
- Floor Stand 5 MU SP (2)
- Center Floor Stand I Compose
- Screen Floor Stand MU
- Screen Lift Plus (1

#### Individual 40 Compose Full-HD+ 100

- Wall Mount (delivery status)
- Screen Wall Mount 2 (1
- Table Stand I 40-46 Compose
- Floor Stand 5 MU SP (2
- Center Floor Stand I Compose
- Screen Floor Stand MU
- Screen Lift Plus (1)

The code and the steep to the code of the

<sup>&</sup>lt;sup>(1</sup> Only in conjunction with appropriate adapters that are sold separately.

# **Glossary**

#### 0-9

**24p movie display:** Modern movie makers produce movies with 24 (full) pictures per second (24p), conventional TV sets (and most DVDs) show 50 (half) pictures per second. To play the movie, the original number of pictures is doubled and the film sped up. This is optimal for sports broadcasts but for quieter movies it distorts the picture quality.

#### Α

**Active antenna:** An antenna with its own power supply or amplification that can improve reception in areas with poor reception.

AV socket: Socket for audio and video signals.

AV sources: Audio/video source.

AVS: Audio/video sockets on the TV set (cinch and Mini-DIN).

В

**Band:** Designation for a frequency range.

#### C

**CA module:** The **Conditional Access module** contains the coding system and compares the transmitted code with the one on the **Smart Card**. If they match, the appropriate stations or programmes are decoded.

Cinch cable: Cable for transmitting audio or video.

CI slot: See Common Interface.

**Common Interface:** The Common Interface (CI slot) is a standardised interface. By inserting suitable decoding modules (**CA modules**) and a **Smart Card** coded digital programmes can be used.

**Component IN:** Connection by which the video signal is transmitted via three separate cinch connections. It is made up of the brightness signal "Y" and the colour difference signals "Pb" and "Pr". **YPbPr** is the original analogue version of the digital **YCbCr** with which, among other things, video data stored on the DVD and transmitted by satellite, cable or antenna in DVB are colour coded.

Conditional Access module: See CA module.

#### D

**Decoder:** Analogue, coded TV signals are passed through a decoder and made visible again.

**Digital Link:** System for controlling recorders (for video and DVD recorders from Loewe) via the Euro AV sockets of the Loewe TV set with concealed setup. Controlling the recorder for timer recordings.

**Digital Link HD:** System for controlling devices via the HDMI connection of the Loewe TV set in the case of concealed installation.

**Digital Link Plus:** System for controlling recorders according to protocol 50. For analogue stations the station and timer data are transmitted via the EURO-AV socket to the recorder. The timer recording is executed exclusively by the recorder. There is a different designation with different manufacturers.

**Dolby Digital:** Digital multi-channel audio. The digital standard for high quality home movie systems. The individual channels are broadcast separately in this standard. The three front channels right, left and centre, the two surround channels right and left and the external subwoofer channels are called a 5.1 signal. Another term for Dolby Digital is AC3.

**Dolby Pro Logic:** Analogue multi-channel audio. Converts a Dolby-coded stereo signal into a surround sound. This usually contains four channels (front left, centre, front right, surround channel). A special subwoofer channel is not generated in this method.

**Dolby Pro Logic II:** Analog multi-channel audio. Dolby Pro Logic II is a further development of **Dolby Pro Logic**. This method generates a 6-channel spatial sound from a stereo or Pro-Logic signal (front left, centre, front right, surround left, surround right, subwoofer).

**Dolby Surround:** Analogue multi-channel audio system that brings four audio channels down to two audio tracks with the aid of a matrix coding.

**Dolby Virtual Speaker:** The Dolby Virtual Speaker technology simulates the surround playback of a real 5.1-channel playback with only two speakers.

DTS: Digital Theater Systems; Digital multi-channel audio.

**DVB-C/-S/-T:** Digital Video Broadcasting stands for digital television. Technical DVB is the standardised process for transmitting digital content (television, radio, multi-channel audio, room sound, **EPG**, Teletext, and other supplemental services) through digital technology. **C** stands for transmission via cable, **S** for distribution via satellite and **T** for terrestrial or antenna distribution.

**DVD:** Abbreviation of Digital Video Disk and later Digital Versatile Disk.

**DVD preceiver:** Combi-device of DVD player and radio without integrated amplifier.

**DVI:** Digital Visual Interface, is an interface for transmitting digital video and graphic data (without audio).

**Dynamic contrast ratio:** Here the light intensity of the display is adapted in case of a high black portion in the picture. The so-called backlights are dimmed automatically and the contrast ratio increases temporarily, i.e. dynamically.

#### F

#### Electronic Programme Guide: See EPG.

**EPG:** Electronic Programme Guide is the electronic variant of a printed television programme guide. Using the EPG you can watch the TV programme of the TV stations which transfer the appropriate data. The overview of the programmes contains the title, beginning and end and the duration of the programme. In addition also a brief description of respective content of the programme is displayed.

**Euro AV socket:** Interface for connecting video devices to a TV set. This socket is also referred to as Scart socket.

# **Glossary**

#### F

**FLOF:** Full Level One Facilities. Teletext system in which designations and numbers of the jump destinations are transmitted separately for every page on the bottom line. This guides the reader to related topics for example. An information about which pages exist and which pages have sub-pages is not available in FLOF.

#### Н

**HDCP:** High-bandwidth Digital Content Protection. Coding system provided for the interfaces **DVI** and **HDMI** for protected transmission of audio and video data.

**HDMI:** High Definition Multimedia Interface is a newly developed interface for full digital transmission of audio and video data.

**HDTV:** High Definition Television is an umbrella term that covers a number of high resolution television standards.

**HD-Ready:** A quality seal that is awarded to products which are capable of displaying high-definition television (**HDTV**).

**High band and Low band:** Transmission ranges for satellites.

#### ī

**ID3 tags:** Additional information for MP3 and WMA audio files. Information about the singer, title, album and album cover can be saved here among other things. These data are edited on the PC by an ID3 tag editor.

#### 1

**JPEG/JPG:** Joint Photographic Experts Group is a committee that has developed a standard method of compression for digital images. This JPEG method (**JPG** for short) named after the committee is a widely used graphic format for photos.

#### L

LCD: Liquid Crystal Display.

**LCN:** Logical Channel Numbers. In stations with LCN, the channel location number belonging to the station is also transmitted by the provider. The stations are sorted according to these channel location numbers.

**L-Link:** Intelligent system connection between Loewe devices for the automatic exchange of information. Makes the operation of TV and Loewe system components even more convenient.

**LNB/LNC:** The crucial electronic component of a satellite antenna is referred to as an LNB (Low Noise Block Converter). It is mounted in the focal point of a parabolic antenna. The designation **LNC** (Low Noise Converter) indicates that conversion to lower intermediate frequency takes place. The supplemental block in the LNB refers to the fact that a whole frequency range (a block) is converted in each case.

#### M

**MHEG-5:** Digital teletext standard of the Multimedia and Hypermedia Expert Group. At the moment only available in United Kingdom and Ireland.

**Modulator:** Transmitter in the video or DVD recorder so that the devices can receive signals via the tuner of the TV device.

Mono: Single-channel audio.

**MPEG:** Digital compression process for video. **MP3:** Data format for compressed audio files.

#### N

**Network ID:** NID refers to the so-called programme ID number also known as network ID – a number between 0 and 8191. This specification is necessary in specific cable networks of some countries. Then only DVB signals of this station network are searched for.

**NICAM:** Audio standard. Is used in Denmark, England, France, Sweden, and Spain.

NTSC: American picture standard.

#### P

**Page Catching:** For Teletext, refers to going to and calling a page number.

**PAL:** European picture standard.

PCM: Pulse Code Modulation for digital audio.

Picture in Picture: See PIP.

**PIP:** Picture in Picture; a function which displays two pictures on the screen.

**Pixel:** Refers to the smallest unit of a digital grid graphic and its representation on a screen with grid control.

**Pixel error:** A pixel error is a defective pixel, usually on an LCD. Pixel errors may be caused by production faults. They are expressed for example by a constantly lit pixel or a constantly black pixel. Single defective pixels however are excluded from a quarantee.

**Progressive JPEG:** Progressive **JPEG**s are built up gradually. The picture quality improves continuously during loading.

**ProScan/Progressive Scan:** Progressive Scan (abbr. PS) or full picture method is a technique in the picture build-up of monitors, TV sets, beamers, and other display devices in which the output device is not sent line interlaced half pictures – unlike in the interlace technique – but real full pictures.

#### R

**RGB:** Colour signals red, green and blue.

# **Glossary**

S

Satellite tuner: Receiver for satellite programmes.

**SDTV:** Standard Definition TeleVision. **SECAM:** French picture standard.

**Set-Top-Box:** Set-Top-Box (STB for short) refers to a device in entertainment electronics which is connected to another device, usually a TV set, and offers the user additional functional options.

**Signal input groups:** Depending on the applied signal, the signal sources are divided into different groups. All signal input groups with their corresponding signal types are the possible inputs are listed below.

TV analogue:

Signal type: FBAS, YC, RGB-SD (480i/576i), Component-SD (480i/576i)

Input: Tuner analogue, AV1, AV2, AVS, COMP. In

TV digital:

Signal type: DVB-SD, HDMI-SD (480i/576i)

Input: Tuner digital, HDMI1/DVI, HDMI2/DVI

HD analogue:

Signal type: RGB-HD (video mode: e.g.1920x1080, 1280x720),

Component-HD (video modes: e.g. 1920x1080, 1280x720)

Input: COMP. IN, PC IN

**HD** digital:

Signal type: DVB-HD, HDMI-HD

Input: Tuner digital, HDMI1/DVI, HDMI2/DVI

PC:

Signal type: RGB

(PC modes: e.g. 800x600, 1024x768, 1280x1024, 1360x768)

Input: PC IN

PhotoViewer: Input: USB

**Signal strength:** strength of the received antenna signal.

Signal quality: quality of the incoming antenna signal.

**Smart Card:** The Smart Card is an electronic chip card issued by the respective programme provider or by the certification-free Pay TV operators. It contains the code which is decoded by the **CA module**.

**Static contrast ratio:** Describes the difference between the brightest and darkest picture display.

Stereo: Dual-channel audio.

**Switching voltage:** Video devices specify this voltage to switch the TV

device to playback.

**Symbol rate:** describes the transmission speed for data transmission.

Т

**Terrestrial:** In data transmission a wireless transmission that does not use satellites as intermediate station is referred to as terrestrial.

**TFT:** Thin-Film-Transistor. One widely distributed application is control of liquid crystal flat screens, for which a signal transistor is used for each pixel. This design of display is also referred to as active matrix, however it is frequently also referred to as TFT display.

**TOP:** Table of Pages. Teletext system in which the individual pages are divided into topics. The blocks stand for a higher hierarchy level (e.g. News, Sport, Programmes) and the groups for the level below (e.g. Home/ Abroad, Football/Tennis). Abbreviations can be assigned to the pages which are displayed in colour on the bottom line and can be selected with the four coloured buttons on the remote control. Information is also transmitted which pages exist and which have sub-pages.

**Tuner:** Another term for receiver.

U

**USB:** Universal Serial Bus. Serial bus system for connecting external devices (USB card reader, USB stick).

٧

**VGA:** PC interface for connecting a monitor.

**Virtual Dolby Surround:** A technology certified by Dolby. It creates a virtual sound from two speakers. Prerequisite is **Dolby Surround** or **Dolby ProLogic** as a source. The used virtualizer processes all multi-channel signals and gives the impression of additional speakers.

**VPS:** The Video Programming System (VPS) is a signal that some (not all) television transmitters transmit in the vertical blanking interval of the television signal. The signal is used by video and DVD recorders when recording programmes to react to delays in start time, programme changes and excesses of the planned program time.

Υ

**Ycc/Ypp:** Colour standards for **Set-Top-Boxes**.

YCbCr: Digital colour model, see COMPONENT IN.

**YPbPr:** Analogue colour model, see **COMPONENT IN**.

# Index

A Access code 38 Active speakers 49 Adjusting the picture 21 Adjusting the sound 20 Alarm 38 Assist+ 8, 16 Audio amplifiers 52 Auro Loewe Preceiver 47 Auto format 21 Automatic dimmer 21 AV audio signal 20 AV selection 19  B Balance 20 Batteries 11 Brightness 21 Button functions 22  C CA module 35 Card reader 56 Change favourites lists 27 Add station 27 Delete station 27 Move station 27 Rename list 27 Change station 26 Delete station 26 Rename station 26 Rename station 26 Rename station 26 Connection wizard 26 Connecting the antenna 11 Connections 5, 6 Connection wizard 40 Contrast 21 Control unit 4 Copy protection 55  D D Data capture 31 Digital Link Plus E4 E5 Digital Link Plus Plus Plus Plus Plus Plus Plus Plus	Display 12 DVB character set 23 DVB software 36 DVD button 62 DVI 44  E Encrypted stations 13, 24, 35 EPG 30  F Factory settings picture/sound 21 Favorites 19 File folder 57 First installation wizard 12 FLOF 32  H HDMI 44 Headphone volume 20 Help 15 HiFi/AV amplifier 52  I Index in the TV set 16 Individual Sound 48 Info Display 15 iPIP 28  L Language 12, 16, 17, 65 Language/audio selection 23 Last station 22 LNC/LNB 13 Loudness 20  M Mains switch 12 Manual station search 25 Manual timer 55 Maximum volume 20 Memorise 30 Menu operation 15 Mobile phone keypad 15 Move picture vertically 22 MusicBox 58 All albums 59 All titles 59 Artists 59 Browse/sort 59 Files 59 Playlist 60 Reneat 61	N New devices/modifications 40 Numeric buttons 15, 16, 18  O On-screen displays 39 Overview diagram 17  P Page selection 32 Parental lock 38 PC IN 45 Personal text pages 22, 33 PhotoViewer 56 Picture 21 Picture adjustment 21 Picture format 21, 22	Smart Card 35 Software update 36 Sound 20 Sound components wizard 47 Sound mode 20 Sound off 20 Split screen 28, 29 Standard PIP 28 Standby mode 12 Station list 18 Station search/update 24 Status display 23 Storage medium 57 Subtitles 23 Switching off 12 Switching off 12 Switching voltage 17 Switching voltage 17 Switch on volume 20  T Teletext 32 Teletext functions 22 Teletext subtitles 22 Time 22 Time and date 39 Timer data 54 Date 54 Recorder 54 Recording time 54 Recording type 54 VPS 54 Timer functions 38 Timer list 55 Timer recordings 54 TOP 32 TOP table 32 TV base software 36 TV button 11, 62 TV menu 17 TV set equipment 7 TV speakers 11, 47  U USB stick 36, 56, 58 V Video source 19 Videotext subtitles 33 Volume 20 Volume adjustment 20 VPS times 33
Digital Link HD 44	Playlist 60	Signal type 41	
Digital Link Plus 54, 55	Repeat 61	Slide show 57	
Digital teletext 33	Select/play music 58	Small PIP 28, 29	

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